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AFWAL-TR-86-4006
Volume V
Part 6

AD-A181 705

INTEGRATED INFORMATION
SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 6 - NDDL Processor Product Specification
Section 3.10.9 through 4.2

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General Electric Company
Production Resources Consulting
One River Road
Schenectady, New York 12345

Final Report for Period 22 September 1980 - 31 July 1985

November 1985

Approved for public release; distribution is unlimited.

MATERIALS LABORATORY
AIR FORCE WRIGHT AERONAUTICAL LABORATORIES
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AFB, OH 45433-6533

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SCAN Project Priority 6201

The computer software contained herein are theoretical and/or references that in no way reflect Air Force-owned or -developed computer software.

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FIELD	GROUP	SUB GR.	
1305	0905		

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This document is the product specification establishing the design implementation of the IISS Configuration Item Neutral Data Definition Language NDDL which is the primary tool used for maintaining the Common Data Model (CDM) data base.

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Integrated Information Support System (IISS)
Vol V - Common Data Model Subsystem
Part 6 - NDDL Processor Product Specification
Section 3.10.9 through 4.2

A S D 86 1481
17 Jul 1986

PREFACE

This product specification covers the work performed under
Air Force Contract F33615-80-C-5155 (ICAM Project 6201). This
contract is sponsored by the Materials Laboratory, Air Force
Systems Command, Wright-Patterson Air Force Base, Ohio. It was
administered under the technical direction of Mr. Gerald C.
Shumaker, ICAM Program Manager, Manufacturing Technology
Division, through Project Manager, Mr. David Judson. The Prime
Contractor was Production Resources Consulting of the General
Electric Company, Schenectady, New York, under the direction of
Mr. Alan Rubenstein. The General Electric Project Manager was
Mr. Myron Hurlbut of Industrial Automation Systems Department,
Albany, New York.

Certain work aimed at improving Test Bed Technology has
been performed by other contracts with Project 6201 performing
integrating functions. This work consisted of enhancements to
Test Bed software and establishment and operation of Test Bed
hardware and communications for developers and other users. *(ty page viii)*
Documentation relating to the Test Bed from all of these
contractors and projects have been integrated under Project 6201
for publication and treatment as an integrated set of documents.
The particular contributors to each document are noted on the
Report Documentation Page (DD1473). A listing and description
of the entire project documentation system and how they are
related is contained in document FTR620100001, Project Overview.

The subcontractors and their contributing activities were
as follows:

TASK 4.2

Subcontractors	Role
Boeing Military Aircraft Company (BMAC)	Reviewer
D. Appleton Company (DACOM)	Responsible for IDEF support, state-of-the-art literature search
General Dynamics/ Ft. Worth	Responsible for factory view function and information models

Subcontractors	Role
Illinois Institute of Technology	Responsible for factory view function research (IITRI) and information models of small and medium-size business
North American Rockwell	Reviewer
Northrop Corporation	Responsible for factory view function and information models
Pritsker and Associates	Responsible for IDEF2 support
SofTech	Responsible for IDEF0 support

TASKS 4.3 - 4.9 (TEST BED)

Subcontractors	Role
Boeing Military Aircraft Company (BMAC)	Responsible for consultation on applications of the technology and on IBM computer technology.
Computer Technology Associates (CTA)	Assisted in the areas of communications systems, system design and integration methodology, and design of the Network Transaction Manager.
Control Data Corporation (CDC)	Responsible for the Common Data Model (CDM) implementation and part of the CDM design (shared with DACOM).
D. Appleton Company (DACOM)	Responsible for the overall CDM Subsystem design integration and test plan, as well as part of the design of the CDM (shared with CDC). DACOM also developed the Integration Methodology and did the schema mappings for the Application Subsystems.

Subcontractors	Role
Digital Equipment Corporation (DEC)	Consulting and support of the performance testing and on DEC software and computer systems operation.
McDonnell Douglas Automation Company (McAuto)	Responsible for the support and enhancements to the Network Transaction Manager Subsystem during 1984/1985 period.
On-Line Software International (OSI)	Responsible for programming the Communications Subsystem on the IBM and for consulting on the IBM.
Rath and Strong Systems Products (RSSP) (In 1985 became McCormack & Dodge)	Responsible for assistance in the implementation and use of the MRP II package (PIOS) that they supplied.
SofTech, Inc.	Responsible for the design and implementation of the Network Transaction Manager (NTM) in 1981/1984 period.
Software Performance Engineering (SPE)	Responsible for directing the work on performance evaluation and analysis.
Structural Dynamics Research Corporation (SDRC)	Responsible for the User Interface and Virtual Terminal Interface Subsystems.

Other prime contractors under other projects who have contributed to Test Bed Technology, their contributing activities and responsible projects are as follows:

Contractors	ICAM Project	Contributing Activities
Boeing Military Aircraft Company (BMAC)	1701, 2201, 2202	Enhancements for IBM node use. Technology Transfer to Integrated Sheet Metal Center (ISMC)

v

Contractors	ICAM Project	Contributing Activities
Control Data Corporation (CDC)	1502, 1701	IISS enhancements to Common Data Model Processor (CDMP)
D. Appleton Company (DACOM)	1502	IISS enhancements to Integration Methodology
General Electric	1502	Operation of the Test Bed and communications equipment.
Hughes Aircraft Company (HAC)	1701	Test Bed enhancements
Structural Dynamics Research Corporation (SDRC)	1502, 1701, 1703	IISS enhancements to User Interface/Virtual Terminal Interface (UI/VTI)
Systran	1502	Test Bed enhancements. Operation of Test Bed.

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FOREWORD

This is the fourth bound segment of four comprising Volume V, Part 6 of the Final Technical Report. It contains Section 3.10.9 through 4.2.

3.10.9 Include File Descriptions

The following list contains a purpose and description of each include file listed in 3.10.4 as specified in the source code. The language it is written in is also given.

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: CHKMODL
PURPOSE: DETERMINE IF CURRENT MODEL EXISTS FOR A SESSION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

   DETERMINE IF THE GLOBAL VARIABLE MODEL-NO HAS A CURRENT
   MODEL NUMBER. THIS WILL BE SET BY THE CREATE MODEL OR THE
   ALTER MODEL COMMAND PROCESSOR. IF MODEL-NO CONTAINS
   A ZERO, THEN A CURRENT MODEL HAS NOT BEEN ESTABLISHED

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: CMDS
PURPOSE: COMMAND NO. FOR EACH NDDL/NDML COMMAND
LANGUAGE: C

DESCRIPTION:

  DESCRIPTION
  CONTAINS THE UNIQUE COMMAND NUBER FOR EACH NDDL AND
  NDML COMMAND. THIS NUMBER IS USED IN PROCESSING TO
  DETERMINE THE APPROPRIATE PROCESSOR TO EXECUTE.

MDEL COMMAND PROCESSOR Include File Description

FILE NAME: COPY
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: ECLIST
PURPOSE: CONTAINS A LIST OF ENTITY CLASS NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:
- - - - - - - - - - - -

THIS LIST IS USED WHEN PROCESSING NDDL
MODELING COMMANDS

MDOL COMMAND PROCESSOR Include File Description

FILE NAME: ERRPRO
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MDDL COMMAND PROCESSOR Include File Description

FILE NAME: FPCODE
PURPOSE: FORM PROCESSOR RETURN CODES
LANGUAGE: C

DESCRIPTION:

MDDL COMMAND PROCESSOR Include File Description

FILE NAME: FPPARM
PURPOSE: FORM PROCESSOR PARAMETERS
LANGUAGE: C

DESCRIPTION:

   DESCRIPTION: THESE DATA DEFINITIONS ARE USED
               IN THE FORM PROCESSOR ROUTINES.

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: KCLIST
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: KEYLIST
PURPOSE: DATA STRUCTURE FOR NDDL MODELLING COMMANDS
LANGUAGE: C

DESCRIPTION:

  DESCRIPTION

  DATA STRUCTURE THAT HOLDS ENTITES ITS KEY CLASSES AND
  KEY CLASS MEMBERS. THIS STRUCTURE IS USED FOR THE
  NDDL MODELLING COMMANDS.

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: KWDTBL
PURPOSE: KEYWORD TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

LIST OF KEYWORDS, OBJECT NUMBER, KEYWORD NUMBER
BELONGING IN THE MODEL

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: LISTID
PURPOSE: PROVIDES LIST OF PARSED OBJECTS
LANGUAGE: C

DESCRIPTION:

  DESCRIPTION

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: LISTNOS
PURPOSE: VALID LIST NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

     LISTNOS INCLUDE FILE WILL CONTAIN THE LIST NUMBERS FOR THE
     TOKENS OF THE NDDL COMMANDS

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: LISTREL
PURPOSE: LIST OF RELATIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

   TABLE HOLDS RELATIONS CLASS NUMBERS AND NAMES

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: LISTS
PURPOSE: PROVIDES THE DIMENSIONS OF THE NDDL LISTS
LANGUAGE: C

DESCRIPTION:

   DESCRIPTION

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: NDDL
PURPOSE: **** PURPOSE NOT FOUND BY STRIPPER ****
LANGUAGE: C

DESCRIPTION:

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: NDDLEXY
PURPOSE: **** PURPOSE NOT FOUND BY STRIPPER ****
LANGUAGE: C

DESCRIPTION:

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: OK
PURPOSE: GOOD RETURN CODE VALUE FOR UI
LANGUAGE: C

DESCRIPTION:

  DESCRIPTION

  CONTAINS THE VALUE FOR A GOOD RETURN CODE
  FROM THE USER INTERFACE

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: ORCLEDA
PURPOSE: WS DEFINITION FOR THE ORACLE LOGIN AREA
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THE ORACLE LOGON DATA AREA

.

.

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: RCDEPKC
PURPOSE: LIST OF KEYS MIGRATED VIA A RELATION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

        The RC-DEPKC-LIST is used by the NDDL
        modeling commands to identify which key

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: RELTBL
PURPOSE: LIST OF RELATION CLASSES IN A MODEL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

HOLD RELATION CLASS NUMBERS BELONGING TO A MODEL

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: RENLIST
PURPOSE: LIST OF ATTRIBUTES AND INHERITED TAG PAIRS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: SDLIST
PURPOSE: SEC-DECOMPOSITION-LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

      THIS LIST REPRESENTS ALL ENTITY CLASSES AND
          RELATIONS
      MAKING UP EITHER THE SURROGATE ENTITY CLASS
      OR THE COMBINATION OF SEC'S RESULTING FROM JOINS
      IN THE NDML SELECT STATEMENT.
      THIS TABLE IS USED AS INPUT TO ROUTINE CDP4A
WHICH CAN VERIFY THE LEGALITY OF A SEC STRUCTURE

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: SRVRET
PURPOSE: AS THE RETURN GIVEN A TABLE-FULL ERROR
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

    MODIFIED 11/2/83 TO INCLUDE RET-CODE-5   *
    MODIFIED 1/9/84 TO INCREASE ALL ERROR CODES TO PIC X(5)   *
      AND TO ELIMINATE ALPHA'S   *
    MODIFIED 1/26/84 TO ADD RET-CODE FOR GETUSR-NOT-SUCC   *
    SRV-SUCCESSFUL ADDED FOR GENERIC RETURN   *
    MODIFIED 2/7/84 TO ADD ERROR CODES FOR ENTRY-NOT-FOUND   *
    MODIFIED 2/8/84 TO ADD WHTHST-NOT-SUCCESSFUL   *
    MODIFIED 2/20/84 TO ADD TSTMOD NEW CODES.   *
        MODIFIED 20 AUG 84 INITALIZE ALL LOCAL VARAIBLES TO
                    SPACES OR 0.
    MODIFIED 5/21/85 TO ADD RCL AND FILGEN RETURN CODES

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: STDTYP
PURPOSE: STANDARD TYPE DEFINITIONS
LANGUAGE: C

DESCRIPTION:

    DESCRIPTION
        THIS FILE ENSURES THAT THE FOLLOWING STANDARD TYPES ARE
                        AVAILABLE:
            FLOAT   - SINGLE PRECISION FLOAT
            DOUBLE   - DOUBLE PRECISION FLOAT

            LONG   - 32 BIT (OR LARGER) SIGNED INTEGER
            LBITS   - 32 BITS (OR MORE) FOR BIT MANIPULATION

            INT   - NATURAL SIZE SIGNED INTEGER
            UNSIGNED - NATURAL SIZE UNSIGNED INTEGER
            BOOL   - NATURAL SIZE LOGICAL (ZERO / NON-ZERO ONLY)

            SHORT   - 16 BIT (OR LARGER) SIGNED INTEGER
            USHORT   - 16 BIT (OR LARGER) UNSIGNED INTEGER
            BITS   - 16 BITS (OR MORE) FOR BIT MANIPULATION

            CHAR   - SINGLE MACHINE CHARACTER (REAL CHARACTERS
                        ALWAYS POSITIVE)
            TINY   - 8 BIT (OR LARGER) SIGNED INTEGER
            UTINY   - 8 BIT (OR LARGER) UNSIGNED INTEGER
            TBITS   - 8 BITS (OR MORE) FOR BIT MANIPULATION
            TBOOL   - 8 BIT (OR LARGER) LOGICAL (ZERO / NON-ZERO
                        ONLY)

            METACHAR - 16 BIT (OR LARGER) AUGMENTED CHARACTER
                        (SIGNED)

            VOID   - FUNCTION THAT RETURNS NO VALUE

            FORTRAN - STORAGE CLASS FOR FOREIGN (NON-C) ROUTINES
                        OR C ROUTINES
                        WHICH ARE CALLABLE FROM FOREIGN ROUTINES

        SINCE NOT ALL COMPILERS SUPPORT USHORT, TINY, AND UTINY,
                        THE FUNCTIONS

USHORT( ), TINY( ), AND UTINY( ) SHOULD BE USED WHENEVER
REFERENCING THEM.

IN ADDITION, THE FOLLOWING UTILITY MACROS ARE DEFINED:
    LURSHIFT(N, B) - UNSIGNED LONG RIGHT SHIFT
    MAX(A, B)   - MAXIMUM OF A AND B
    MIN(A, B)   - MINIMUM OF A AND B

NDDL COMMAND PROCESSOR Include File Description

```
        ABS(A)          - ABSOLUTE VALUE OF A
        STRASN(A, B)    - TRANSPORTABLE A = B FOR STRUCTURES
        NULL            - NULL POINTER VALUE (0)
        TRUE            - 1
        FALSE           - 0
        SUCCESS         - EXIT(SUCCESS) INDICATES SUCCESSFUL
                        COMPLETION
        FAILURE         - EXIT(FAILURE) INDICATES ERRORS

    THE FOLLOWING SYMBOLS SHOULD BE DEFINED BASED ON THE
                    COMPILER BEING USED:
        USHORT  - COMPILER SUPPORTS UNSIGNED SHORT
        TINY    - COMPILER TREATS CHAR AS SIGNED
        UTINY   - CHAR IS SIGNED AND COMPILER SUPPORTS
                    UNSIGNED CHAR
        VOID    - COMPILER SUPPORTS VOID
        FORTRAN - COMPILER SUPPORTS FORTRAN
        STRASN  - DEFINE APPROPRIATE MACRO
        SUCCESS - DEFINE APPROPRIATE VALUE IF NOT 0
        FAILURE - DEFINE APPROPRIATE VALUE IF NOT 1
```

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: UNIQENO
PURPOSE: UNIQUE NUMBER ASSIGNMENTS FOR CDM OBJECTS
LANGUAGE: C

DESCRIPTION:

 DESCRIPTION

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: VWDI
PURPOSE: LIST OF DATA ITEMS IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

        USED BY CREATE VIEW..

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: VWFROM
PURPOSE: LIST OF ENTITIES SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IN THE 'FROM' CLAUSE

MDDL COMMAND PROCESSOR Include File Description

FILE NAME: VWRC
PURPOSE: LIST OF RELATION CLASSES INHERENT TO A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

USED IN THE 'WHERE' CLAUSE

NDDL COMMAND PROCESSOR Include File Description

FILE NAME: VVRETR
PURPOSE: LIST OF ENTITIES AND TAGS SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IN THE SELECT CLAUSE

3.10.10 Hierarchy Chart

The following hierarchy charts show the relationships
between all of the modules mentioned in the above documentation.
A module may call a subroutine several times within its code,
but the call will only be shown once as a single relationship on
this hierarchy chart. All modules shown at the top of the first
page are considered Main Programs as described in section 3.10.1
above.

There is an internal paging scheme as marked by the numbers
in the upper right corner of each page. An index after the last
page of the chart shows where a routine and its calls are first
defined. If a routine has no page reference, it either makes no
calls or is an external routine. A continuation box on the end
of a tree limb shows where that the tree continues on the page
numbered mentioned. A number in a box with a routine name
points to the page where the routine is further defined within
the hierarchy tree. If there is no number in a box, the routine
either makes no calls or is an external routine.
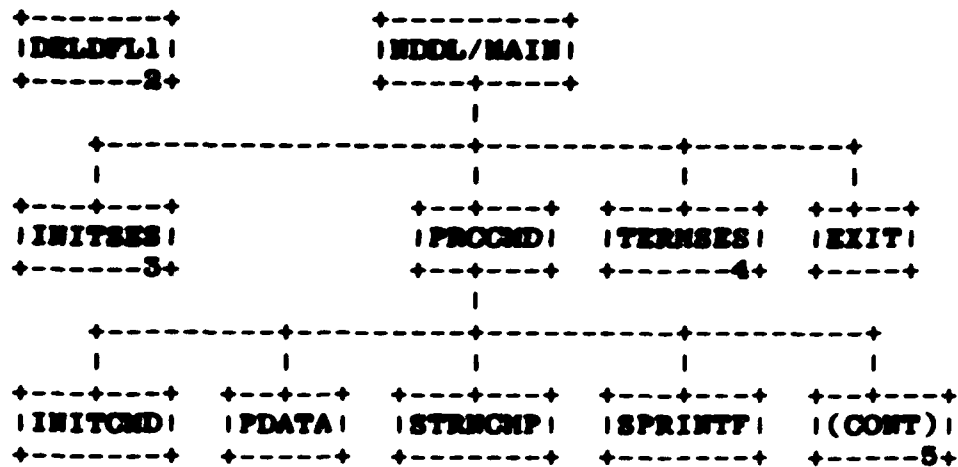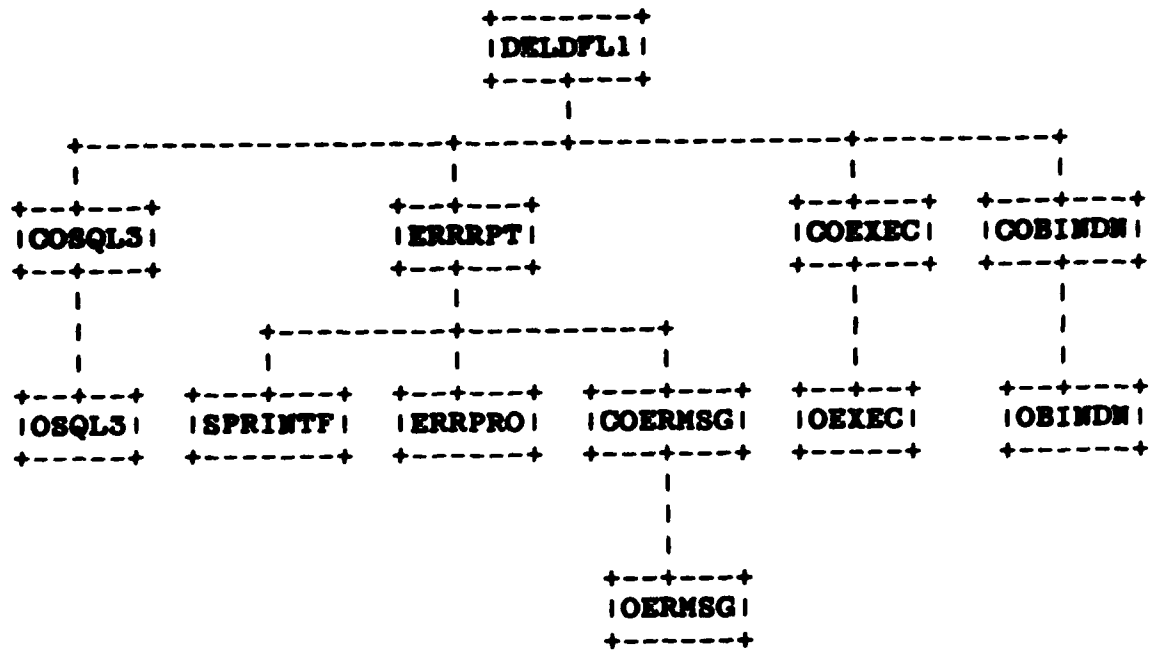
1

```
+--------+              +----------+
|DELDFL1 |              |MDDL/MAIN |
+------2+               +----+-----+
                             |
    +--------------------------+----------------+----------+
    |                          |                |          |
+---+---+                 +--+---+          +---+---+   +-+--+
|INITSES|                 |PROCMD|          |TERMSES|   |EXIT|
+------3+                 +--+---+          +------4+   +----+
                             |
    +-------------+----------+------------+-------------+
    |             |          |            |             |
+---+---+     +--+--+    +---+---+    +---+---+     +--+---+
|INITCMD|     |PDATA|    |STRNCMP|    |SPRINTF|     |(CONT)|
+-------+     +-----+    +-------+    +-------+     +----5+
```

2

```
                          +--------+
                          |DELDFL1 |
                          +---+----+
                              |
       +----------------------+----------------------+----------+---------+
       |                      |                      |                    |
   +--+---+              +--+---+              +--+---+          +---+---+
   |COSQL3 |              |ERRRPT |              |COEXEC |          |COBINDN |
   +--+---+              +--+---+              +--+---+          +---+---+
       |                      |                      |                    |
       |         +------------+------------+          |                    |
       |         |            |            |          |                    |
   +--+--+   +---+---+   +--+---+   +---+---+   +--+--+          +---+---+
   |OSQL3 |   |SPRINTF |   |ERRPRO |   |COERMSG |   |OEXEC |          |OBINDN |
   +-----+   +-------+   +------+   +---+---+   +-----+          +------+
                                        |
                                        |
                                   +--+---+
                                   |OERMSG |
                                   +------+
```

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                        +--------+
                        | INITSES |
                        +---+----+
                            |
        +---------+---------+----------+----------+
        |         |         |          |          |
    +--+---+  +--+----+  +--+---+   +--+----+  +--+---+
    | INITEX |  | STRNCMP |  | SPRINTF |   | UERROR |  | (CONT) |
    +------+  +-------+  +------+   +--+---+  +-----6+
                                      |
                           +----------+----------+
                           |          |          |
                       +---+---+  +--+---+   +--+---+
                       | STRNCPY |  | PMSGLS |   | PRINTF |
                       +-------+  +------+   +------+
```

4

```
                              +--------+
                              | TERMSES |
                              +---+----+
                                  |
    +---------+---------+------+---+----+---+----------+----------+
    |         |         |          |       |          |          |
+---+---+ +---+---+ +---+---+ +---+---+ +---+---+  +---+---+
|COCLOSE| |ERRRPT | |TERMFP | |LOGOFF | |TRMNDML|  |COLOGOF|
+---+---+ +------2+ +-------+ +-------+ +-------+  +---+---+
    |                                                   |
    |                                                   |
    |                                                   |
+---+---+                                           +---+---+
|OCLOSE |                                           |OLOGOF |
+-------+                                           +-------+
```

```
                          +------+  .
                          |PRCCMD|
                          +--+---+
                             |
        +----------+---------+---------+----------+
        |          |         |         |          |
     +--+---+   +--+---+   +--+---+  +---+---+  +--+---+
     |(CONT)|   |PMSGLS|   |UERROR|  |ROLBACK|  |(CONT)|
     +-----1+   +------+   +-----3+  +---+---+  +-----7+
                                         |
                              +---------+---------+
                              |         |         |
                           +--+--+   +--+---+  +-+--+
                           |COROL|   |ERRRPT|  |FREE |
                           +--+--+   +-----2+  +----+
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                           +-+--+
                           |OROL|
                           +----+
```

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                        +-------+
                        |INITSES|
                        +---+---+
                            |
        +-----------+-----------+---+-------+-----------+-----------+
        |           |           |           |           |           |
    +--+---+    +--+---+    +--+--+    +--+---+    +--+---+    +--+---+
    |(CONT)|    |ERRPRO|    |COLON|    |ERRRPT|    |OOOPEN|    |(CONT)|
    +-----3+    +------+    +--+--+    +-----2+    +--+---+    +-----8+
                              |                      |
                              |                      |
                              |                      |
                          +-+--+                 +--+--+
                          |OLON|                 |OOPEN|
                          +----+                 +-----+
```

```
                          +-------+
                          |PRCCMD |
                          +--+----+
                             |
      +-----------+----------+---------+----------+-----------+
      |           |          |         |          |           |
  +--+---+    +--+---+    +--+---+   +--+---+   +--+---+   +--+---+
  |(CONT)|    |BRANCHR|   |ERRPRO|   |UWARN |   |COMMIT|   |(CONT)|
  +-----5+    +------9+   +------+   +--+--++   +----10+   +----11+
                                       |
                          +----------+---------+
                          |          |         |
                      +--+---+   +--+---+   +--+---+
                      |STRNCPY|   |PMSGLS|   |PRINTF|
                      +------+    +------+   +------+
```

```
                              +-------+
                              |INITSES|
                              +---+---+
                                  |
        +----------+----------+---+---+----------+----------+
        |          |          |       |          |          |
    +---+---+  +---+---+  +---+---+  +--+----+  +--+----+  +--+--+
    |(CONT) |  |COCOF  |  |ADDFRM |  |INITFP |  |OPNFRM |  |LOGON|
    +------6+  +---+---+  +-------+  +-------+  +-------+  +-----+
                   |
                   |
                   |
               +-+---+
               |OCOF |
               +-----+
```
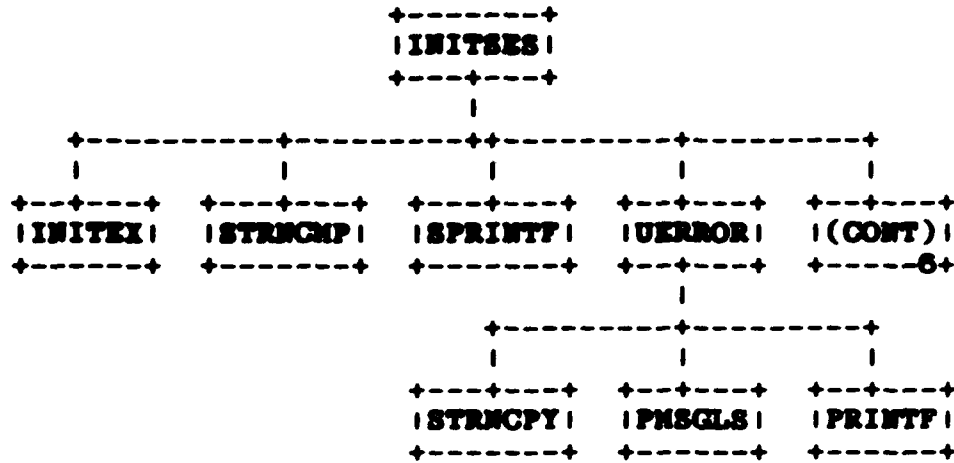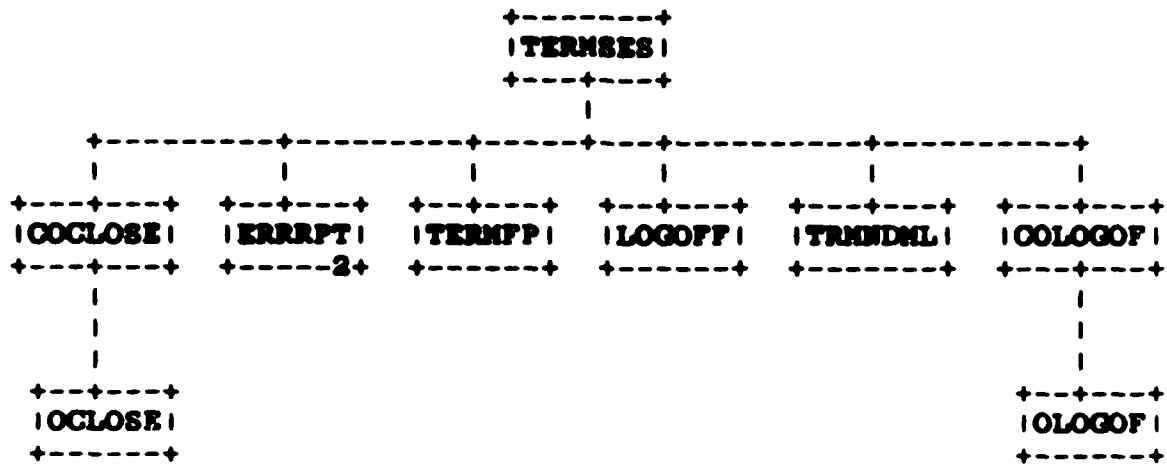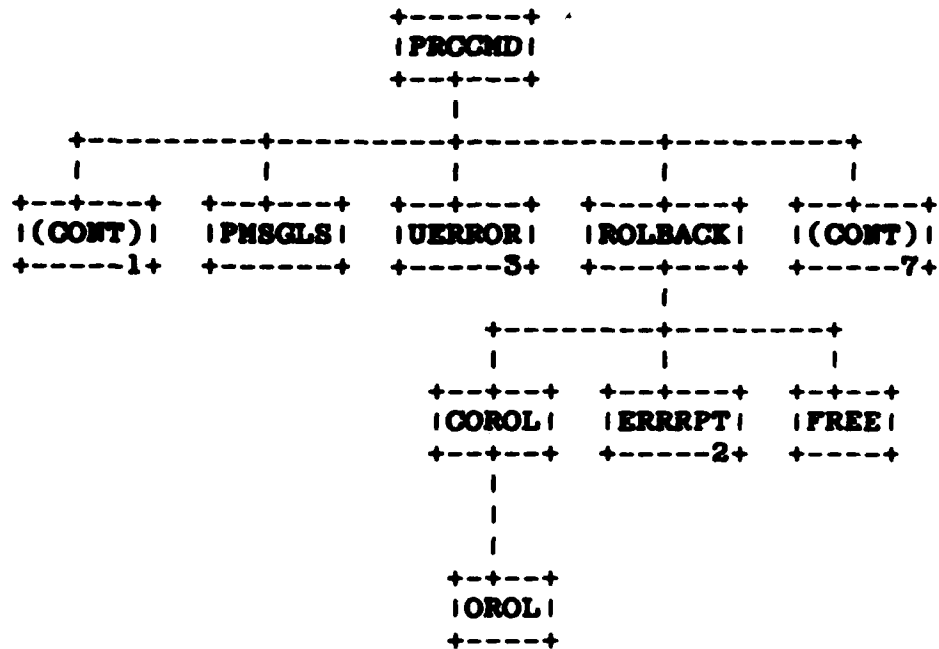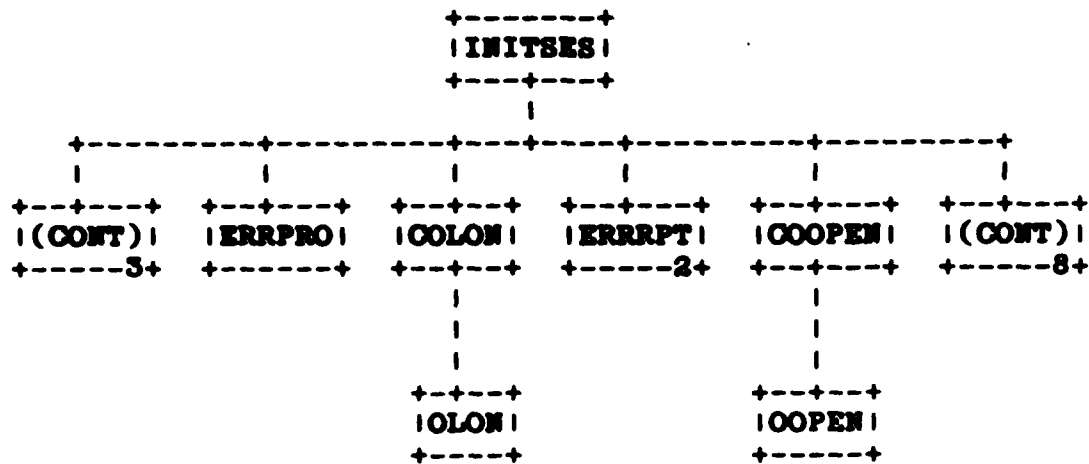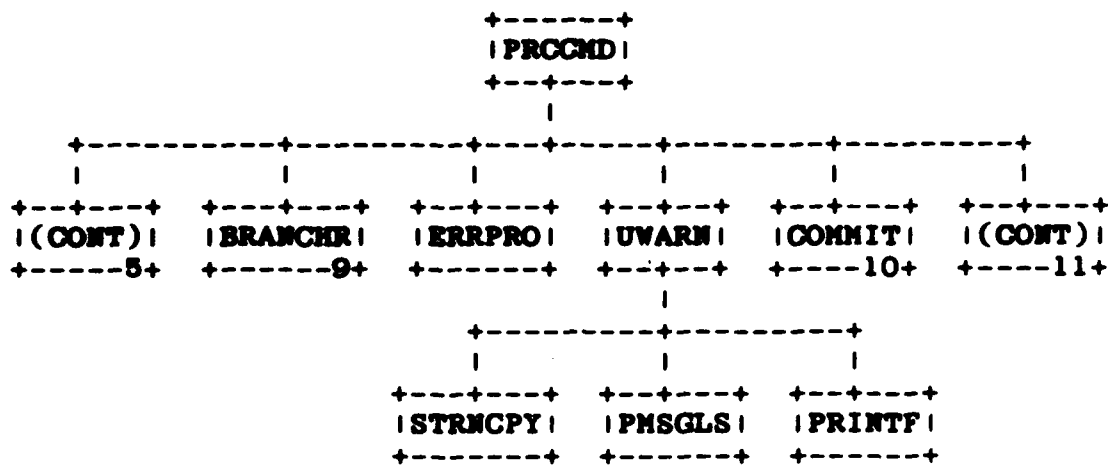
```
                           +-------+
                           |BRANCHR|
                           +--+--+-+
                              |
    +---------+---------+----+----+---------+---------+
    |         |         |         |         |         |
 +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
 |ERRPRO|  |UERROR|  |ALTALI|  |ALTATT|  |PRINTF|  |(CONT)|
 +------+  +-----3+  +----12+  +----13+  +------+  +----14+
```

```
                            +-------+
                            |COMMIT |
                            +--+--+-+
                               |
        +-----------+---------++---------+----------+
        |           |         |          |          |
    +---+---+   +---+---+  +-+-+-+   +--+--+    +-+-+---+
    |INSREUS|   |PRINTF |  |FREE |   |COCOM|    |ERRRPT |
    +---+---+   +-------+  +-----+   +--+--+    +-----2+
        |                                |
    +-----------+-----+-----+----------+ |
    |           |           |          | |
+--+---+    +--+---+   +--+---+   +---+---+   +-+--+
|COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|   |OCOM|
+-----2+    +-----2+   +-----2+   +------2+   +----+
```

```
                              +------+
                              |PRCCMD|
                              +--+---+
                                 |
       +---------+---------+---+-----+---------+--------+
       |         |         |         |         |        |
   +--+---+  +---+---+  +--+--+  +---+---+  +--+--+  +--+---+
   |(CONT)|  |YYPARSE|  |OISCR|  |STRNCPY|  |GDATA|  |RPLFRM|
   +-----7+  +-----15+  +-----+  +-------+  +-----+  +------+
```
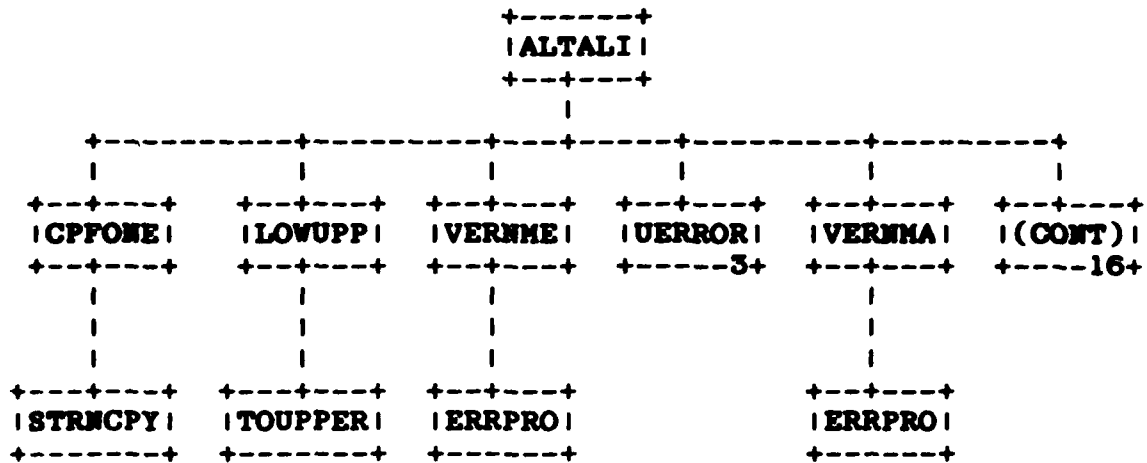
```
                              +------+
                              |ALTALI|
                              +--+---+
                                 |
        +----------+----------+--+---+----------+---------+
        |          |          |      |          |         |
    +--+---+   +--+---+   +--+---+  +--+---+   +--+---+  +--+---+
    |CPFONE|   |LOWUPP|   |VERNME|  |UERROR|   |VERNMA|  |(CONT)|
    +--+---+   +--+---+   +--+---+  +-----3+   +--+---+  +----16+
       |          |          |                    |
       |          |          |                    |
       |          |          |                    |
    +--+---+   +--+---+   +--+---+             +--+---+
    |STRNCPY|  |TOUPPER|  |ERRPRO|             |ERRPRO|
    +------+   +------+   +------+             +------+
```

13

```
                              +------+
                              |ALTATT|
                              +--+---+
                                 |
       +---------+---------+-----+-----+---------+---------+
       |         |         |           |         |         |
   +--+---+  +--+---+  +--+---+   +--+---+   +--+---+   +--+---+
   |CPFONE|  |VERATT|  |CHGDOM|   |SPRINTF|  |UERROR|   |(CONT)|
   +----12+  +--+---+  +----17+   +-------+  +-----3+   +----18+
                |
                |
                |
            +--+---+
            |ERRPRO|
            +------+
```

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14

```
                              +-------+
                              |BRANCHR|
                              +---+---+
                                  |
     +---------+---------+---------+--+------+--------+--------+
     |         |            |         |         |         |
 +--+--+   +--+--+      +--+--+   +--+--+   +--+--+   +--+--+
 |(CONT)|  |ALTDOM|     |ALTENT|  |ALTMAP|  |ALTMOD|  |(CONT)|
 +----9+   +---19+      +--+--+   +----20+  +----21+  +----22+
                           |
     +---------+---------+--+------+--------+--------+
     |         |            |         |         |         |
 +--+--+   +--+--+      +--+--+   +--+--+   +--+--+   +--+--+
 |UERROR|  |CPFONE|     |VERENT|  |DRPAC |  |DRPKC |  |(CONT)|
 +----3+   +---12+      +--+--+   +---23+   +---24+   +----25+
                           |
                           |
                        +--+---+
                        |ERRPRO|
                        +------+
```

15

```
                          +-------+
                          |YYPARSE|
                          +---+---+
                              |
      +----------+-----------+-----------+----------+
      |          |           |           |          |
  +--+---+  +----+-----+  +---+-----+  +--+----+  +--+---+
  |PRINTF|  |ADD_TO_LST|  |ADD_TO_CNT|  |ADD_CORR|  |(CONT)|
  +------+  +-------26+  +---+-----+  +--+----+  +----27+
                            |            |
                            |        +---+-----+
                            |        |         |
                        +--+---+  +--+---+  +--+---+
                        |ERRPRO|  |STRLEN|  |STRCAT|
                        +------+  +------+  +------+
```

```
                          +------+
                          |ALTALI|
                          +--+---+
                             |
        +---------+------+---+---+-----------+
        |         |      |       |           |
    +--+---+   +--+---+   +---+---+       +---+---+
    |(CONT)|   |CPFNXT|   |UPDECAL|       |UPDACAL|
    +----12+   +--+---+   +-----28+       +---+---+
                  |                           |
                  |             +---------+---+---+-----+----------+
                  |             |         |       |     |          |
              +---+---+     +--+---+   +--+---+  +--+---+      +---+---+
              |STRNCPY|     |COSQL3|   |ERRRPT|  |COEXEC|      |COBINDN|
              +-------+     +-----2+   +-----2+  +-----2+      +------2+
```
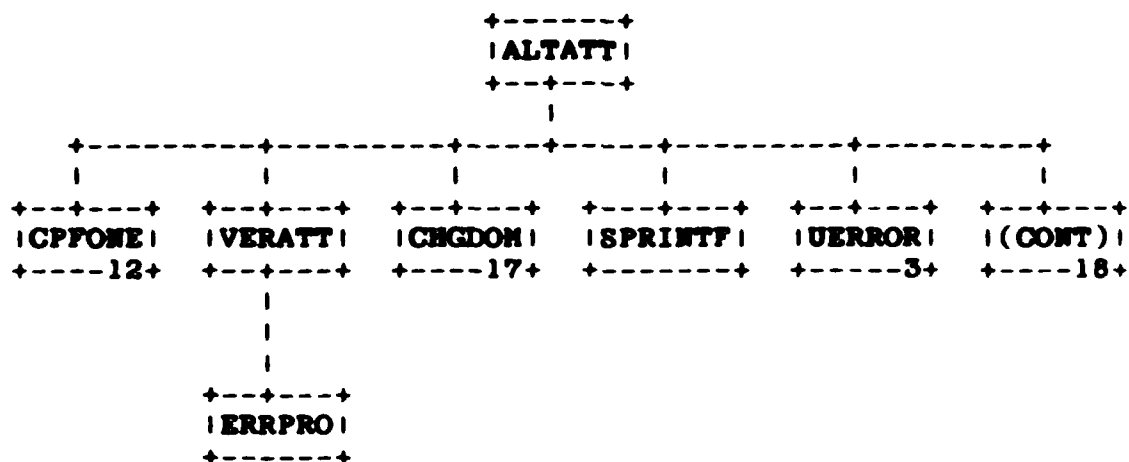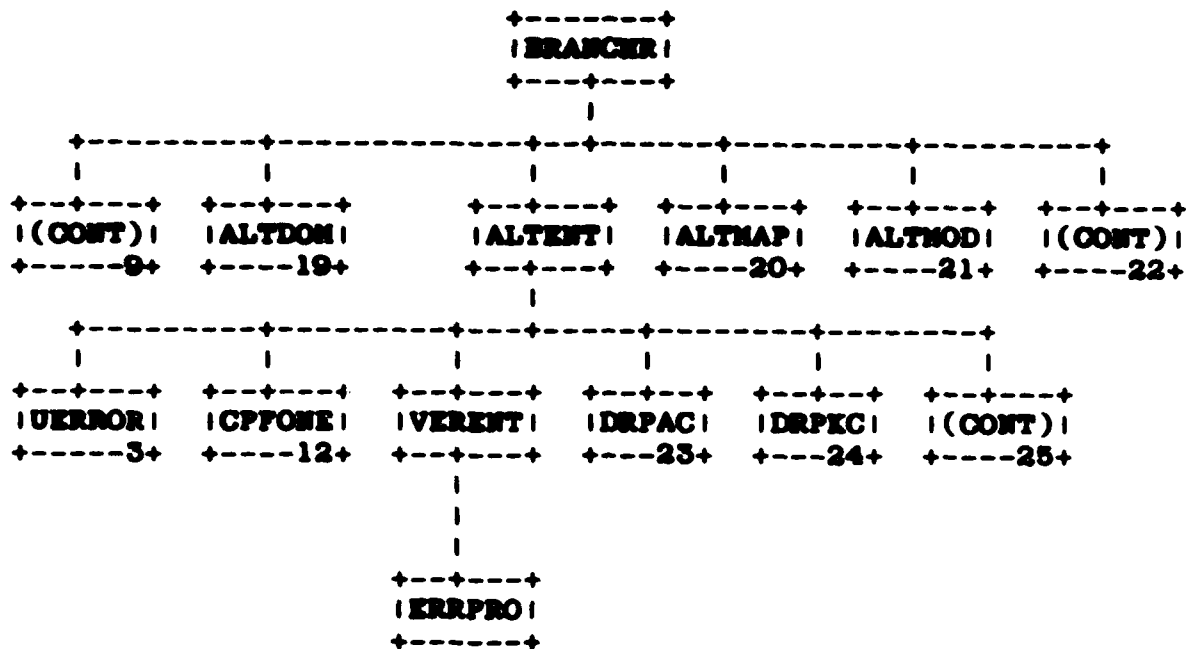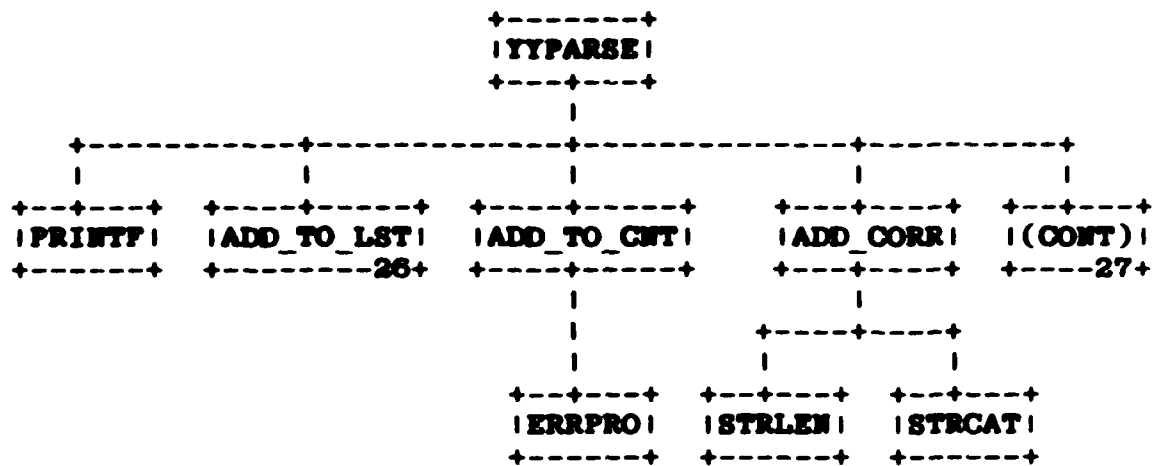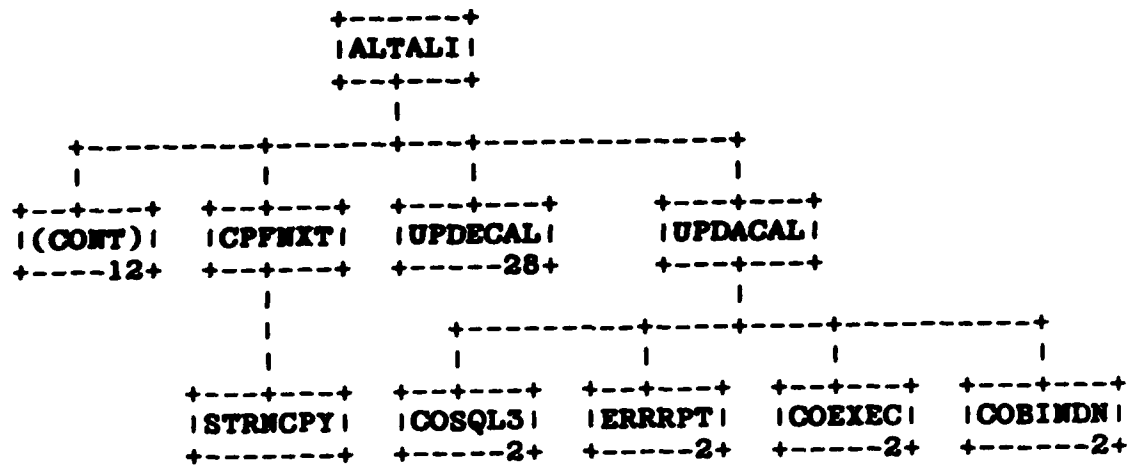
```
                        +------+
                        |CHGDOM|
                        +--+---+
                           |
      +---------+---------++---------+---------+
      |         |         |          |         |
  +--+---+  +--+---+  +---+---+  +--+---+  +--+--+
  |CPFONE|  |VERDOM|  |SPRINTF|  |UERROR|  |UPDAC|
  +----12+  +----19+  +-------+  +-----3+  +---29+
```
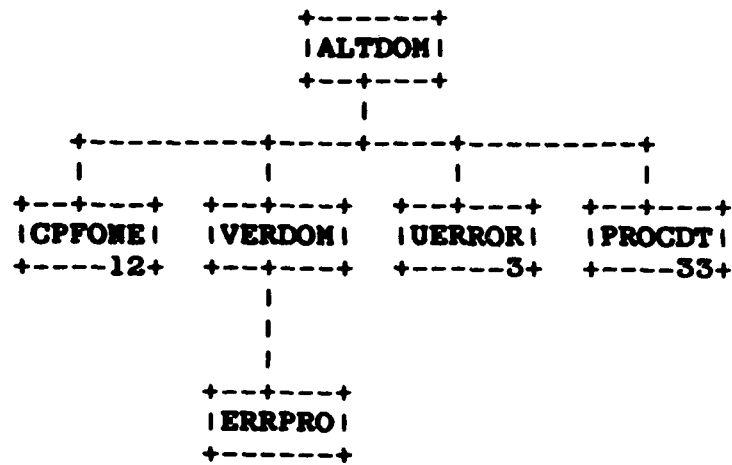
```
                              +------+
                              |ALTATT|
                              +--+---+
                                 |
          +----------------------+-----------+--------+
          |                      |                    |
      +--+---+                +--+--+             +--+--+
      |(CONT)|                |ADDKV|             |DRPKV|
      +----13+                +--+--+             +---30+
                                 |
          +----------+----------+-----+-----+----------+---------+
          |          |          |           |          |         |
      +--+---+   +--+---+   +--+--+   +---+---+   +--+--+   +--+---+
      |CPFONE|   |LOWUPP|   |VERKV|   |GETNNUM|   |INSKV|   |(CONT)|
      +----12+   +----12+   +--284+   +----126+   +---31+   +----32+
```

```
                        +------+
                        |ALTDOM|
                        +--+---+
                           |
        +----------+-------+------+----------+
        |          |              |          |
    +--+---+    +--+---+      +--+---+    +--+---+
    |CPFONE|    |VERDOM|      |UERROR|    |PROCDT|
    +----12+    +--+---+      +-----3+    +----33+
                   |
                   |
                   |
                +--+---+
                |ERRPRO|
                +------+
```

```
                            +-------+
                            |ALTMAP |
                            +--+--+-+
                               |
    +----------+----------+----+----+----------+----------+
    |          |          |         |          |          |
+--+---+   +--+---+   +---+---+  +--+---+   +--+---+   +--+---+
|CPFONE|   |VERENT|   |SPRINTF|  |UERROR|   |CPFNXT|   |(CONT)|
+----12+   +----14+   +-------+  +-----3+   +----16+   +----34+
```
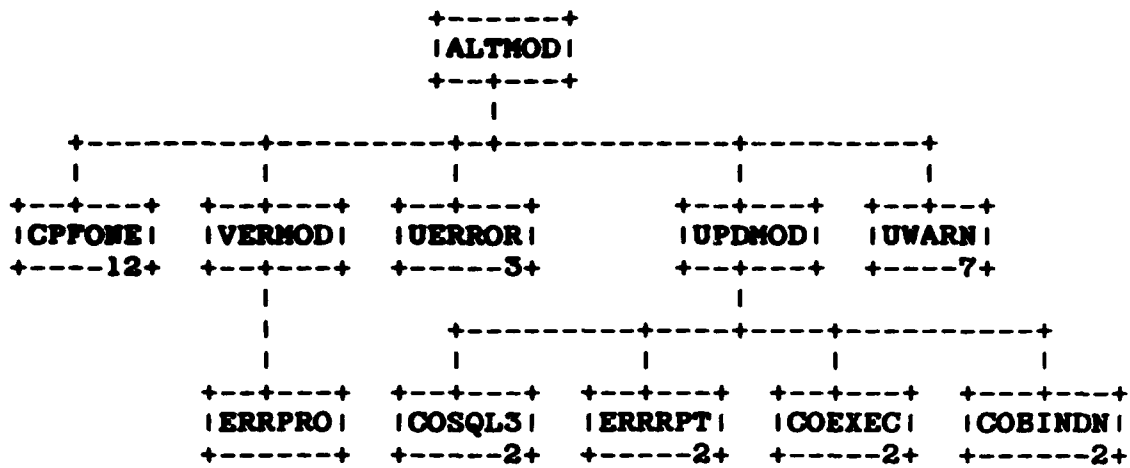
```
                              +-------+
                              |ALTMOD|
                              +--+---+
                                 |
        +----------+----------+--+----------+----------+
        |          |          |            |          |
    +--+---+   +--+---+   +--+---+     +--+---+   +--+--+
    |CPPONE|   |VERMOD|   |UERROR|     |UPDMOD|   |UWARN|
    +----12+   +--+---+   +-----3+     +--+---+   +----7+
                  |                       |
                  |          +---------+----+----+----------+
                  |          |         |         |          |
              +--+---+   +--+---+  +--+---+  +--+---+   +---+---+
              |ERRPRO|   |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
              +------+   +-----2+  +-----2+  +-----2+   +------2+
```
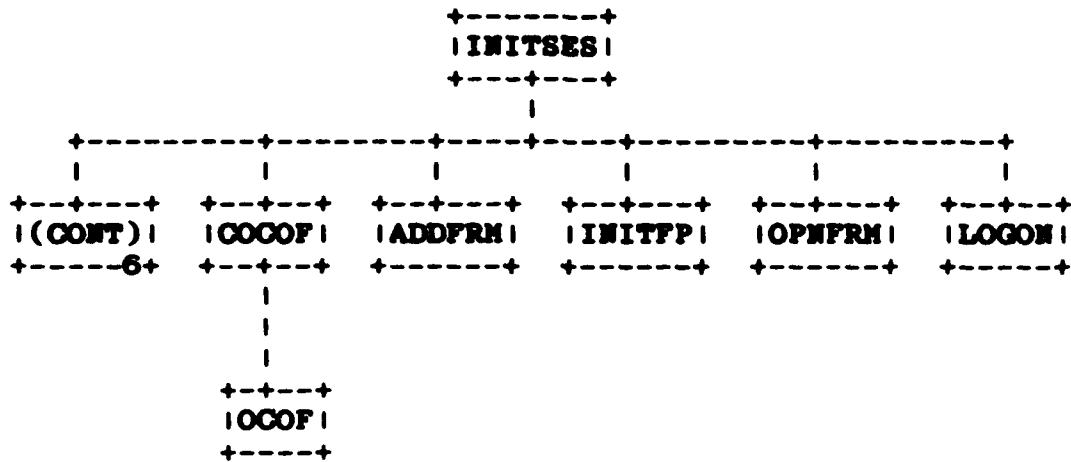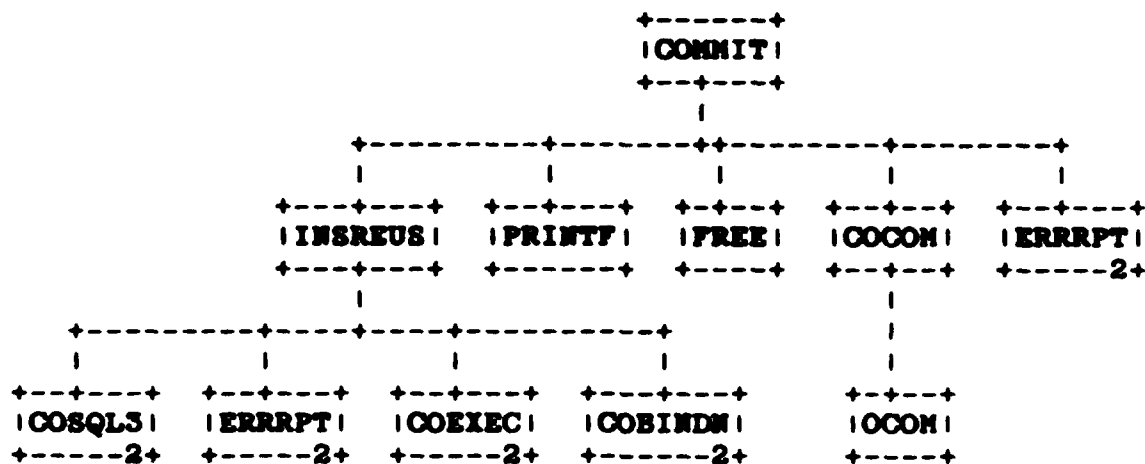
```
                              +-------+
                              |BRANCHR|
                              +---+---+
                                  |
        +-----------+---------+----+----+---------+---------+
        |           |         |         |         |         |
    +--+---+    +--+---+   +--+---+  +--+---+  +--+---+  +--+---+
    |(CONT)|    |ALTREL|   |CHKMOD|  |CMBENT|  |CMPMOD|  |(CONT)|
    +----14+    +----35+   +----36+  +----37+  +----38+  +----39+
```

```
                          +-----+
                          |DRPAC|
                          +--+--+
                             |
     +----------+----------+----+----+----------+--------+
     |          |          |         |          |        |
  +--+---+   +--+---+   +--+---+   +--+---+   +--+---+  +--+---+
  |CPPONE|   |VERATT|   |UERROR|   |DELOAC|   |CPFNXT|  |ERRPRO|
  +----12+   +----13+   +-----3+   +---278+   +----16+  +------+
```

```
                              +------+
                              |DRPKC |
                              +--+--+
                                 |
        +-----------+--------+---+--+--------+----------+----------+
        |           |        |      |        |          |          |
    +--+---+    +--+--+   +--+---+ +--+---+  +--+---+   +--+---+
    |CPPONE|    |VERKC|   |UERROR| |VERCRC|  |DRPNGKN|  |(CONT)|
    +----12+    +--+--+   +-----3+ +--+--+   +-----40+  +----41+
                   |                   |
                   |                   |
                   |                   |
                +--+---+            +--+---+
                |ERRPRO|            |ERRPRO|
                +------+            +------+
```

```
                        +------+
                        |ALTENT|
                        +--+---+
                           |
      +----------+---------+---+----+--------+---------+
      |          |             |        |        |         |
   +--+---+   +--+---+     +--+--+   +--+--+   +--+--+   +---+---+
   |(CONT)|   |ADDATT|     |ADDKC|   |DRPKW|   |ADDKW|   |DELMTKC|
   +----14+   +----42+     +---43+   +---30+   +---18+   +-----44+
```

```
                    +----------+
                    |ADD_TO_LST|
                    +----+-----+
                         |
          +--------------+--------+
          |              |        |
      +--+---+       +--+---+  +--+---+
      |ERRPRO|       |STRLEN|  |STRCAT|
      +------+       +------+  +------+
```

```
                          +--------+
                          |YYPARSE |
                          +---+----+
                              |
       +----------+----------+----------+----------+------------.
       |          |                     |          |
   +---+---+  +---+----+            +---+----+  +---+--+
   |(CONT) |  |ADDWCORR|            |YYERROR |  |YYLEX |
   +----15+  +---+----+            +---+----+  +------+
                  |                     |
           +------+-----+        +------+-----+
           |            |        |            |
       +---+---+    +---+---+  +---+---+   +---+---+
       |STRLEN |    |STRCAT |  |SPRINTF|   |UERROR |
       +-------+    +-------+  +-------+   +-----3+
```
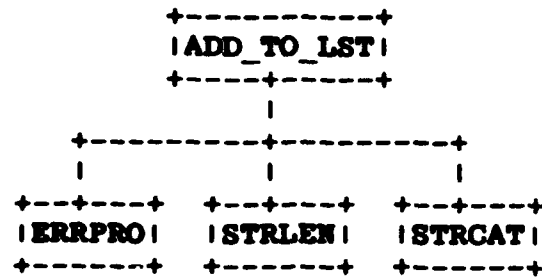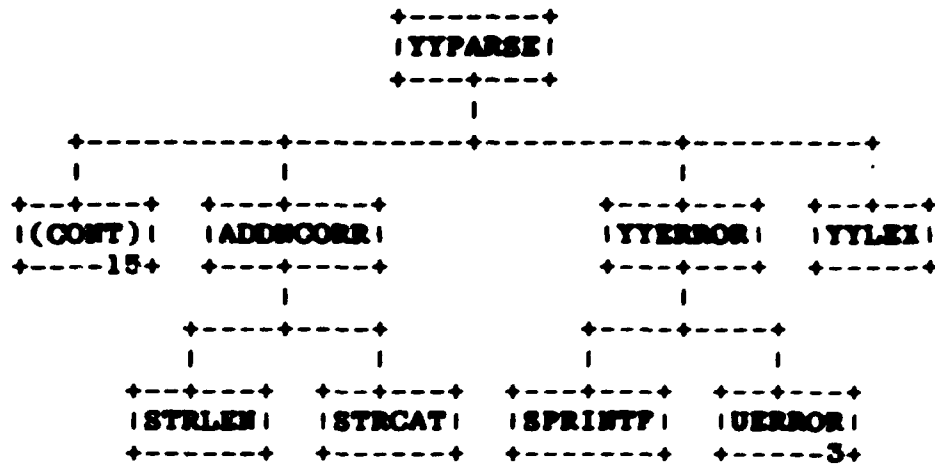
```
                      +--------+
                      |UPDECAL |
                      +---+----+
                          |
          +-----------+---+----+-----------+
          |           |        |           |
      +---+---+    +---+---+ +---+---+   +---+---+
      |COSQLS |    |ERRRPT | |COEXEC |   |COSINDW|
      +-----2+    +-----2+ +-----2+   +-----2+
```

```
                        +-----+
                        |UPDAC|
                        +--+--+
                           |
        +----------+-----+----+--------+
        |          |          |        |
    +--+---+   +--+---+   +--+---+   +---+---+
    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+   +-----2+   +-----2+   +------2+
```
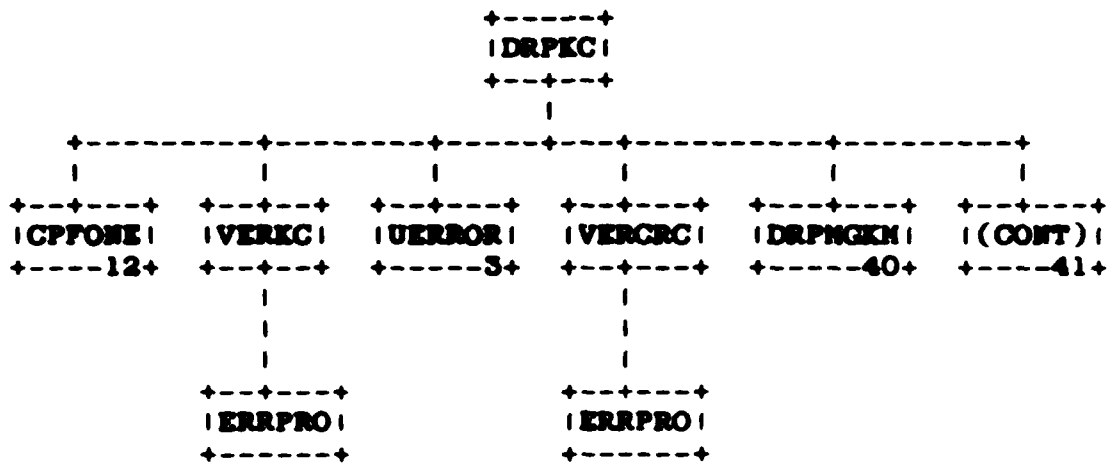
```
                              +-----+
                              |DRPKV|
                              +--+--+
                                 |
        +-----------+-----------+-----+-----+-----------+-----------+
        |           |           |           |           |           |
    +--+--+     +--+--+     +--+--+     +--+--+     +---+---+     +--+---+
    |CPPONE|    |LOWUPP|    |VERKV|     |UERROR|    |DELKVAC|    |(CONT)|
    +----12+    +----12+    +--284+     +-----3+    +----318+    +----45+
```

```
                         +-----+
                         |INSKV|
                         +--+--+
                            |
        +---------+---------+-----+---------+-----------+
        |         |               |         |           |
    +--+---+  +--+---+        +--+---+   +---+---+
    |COSQL3|  |ERRRPT|        |COEXEC|   |COBINDW|
    +-----2+  +-----2+        +-----2+   +------2+
```

```
                              +-----+
                              |ADDKV|
                              +--+--+
                                 |
     +----------+----------+-----+----+----------+----------+
     |          |          |          |          |          |
  +--+---+   +--+---+   +--+---+   +--+---+   +--+---+   +--+---+
  |(CONT)|   |UERROR|   |ADDKVA|   |ADDKVE|   |ADDKVR|   |CPFNXT|
  +----18+   +-----3+   +----46+   +----47+   +--+---+   +----16+
                                                 |
                                          +------+----+
                                          |           |
                                      +---+---+   +--+---+
                                      |INSKVRC|   |ERRPRO|
                                      +---+---+   +------+
                                          |
                        +----------+------+----+----------+
                        |          |           |          |
                    +--+---+   +--+---+    +--+---+   +---+---+
                    |COSQL3|   |ERRRPT|    |COEXEC|   |COBINDN|
                    +-----2+   +-----2+    +-----2+   +------2+
```
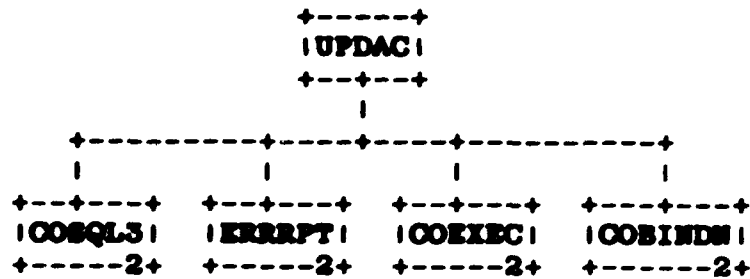
```
                        +------+
                        |PROCDT|
                        +--+---+
                           |
    +---------+----------+---+----+---------+---------+
    |         |          |        |         |         |
+--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
|CPPONE|  |LOWUPP|  |CPPNXT|  |CPPCOR|  |UERROR|  |(CONT)|
+----12+  +----12+  +----16+  +---211+  +-----3+  +----48+
```

```
                              +------+
                              |ALTMAP|
                              +--+---+
                                 |
        +----------+----------+--++----------+----------+
        |          |          |  |           |          |
    +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
    |(CONT)|   |STRNCMP|   |ALTSMAP|   |DRPSMAP|   |(CONT)|
    +----20+   +-------+   +-----49+   +-----50+   +----51+
```

```
                              +------+
                              |ALTREL|
                              +--+---+
                                 |
     +----------+----------+-----+----+----------+----------+
     |          |          |          |          |          |
 +--+---+   +--+---+   +--+---+   +--+---+   +---+---+   +--+---+
 |UERROR|   |CPFONE|   |CPFNXT|   |VERREL|   |ALTCARD|   |(CONT)|
 +-----3+   +----12+   +----16+   +----80+   +-----52+   +----53+
```
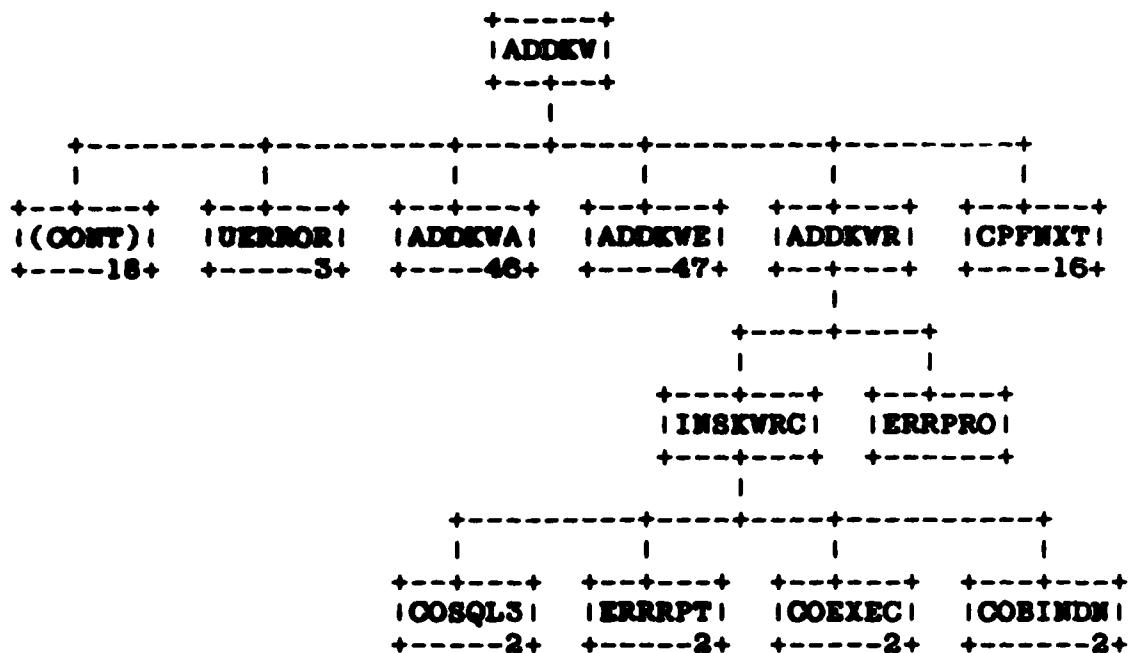
```
                              +-------+
                              |CHKMOD |
                              +---+---+
                                  |
        +-------------+-----------+-----------+-------------+-------------+
        |             |           |           |             |             |
   +----+---+    +----+---+   +----+---+  +----+---+    +----+----+   +----+---+
   |CPFONE  |    |VERMOD  |   |UERROR  |  |GETECB  |    |CHKLOOP  |   |(CONT)  |
   +-----12+    +-----21+   +------3+  +---+---+    +------54+   +-----55+
                                           |
                   +-----------+-----------+-----------+-------------+
                   |           |           |           |             |
              +----+---+  +----+----+  +----+---+  +----+---+    +----+---+
              |CHKREL  |  |CHKKEYS  |  |CHKATT  |  |UVARN   |    |ERRPRO  |
              +-----56+  +------57+  +---+---+  +-----7+    +-------+
                                         |
                                 +---+----+
                                 |        |
                            +----+---+  +-+---+---+
                            |UVARN   |  |ERRPRO   |
                            +-----7+  +-------+
```

```
                          +------+
                          |CMSENT|
                          +--+---+
                             |
    +---------+--------+--------+--------+----------+--------+
    |         |        |        |        |          |        |
+--+---+  +--+---+  +--+---+  +---+---+  +--+---+  +--+---+
|UERROR|  |CPFONE|  |CPFHIT|  |EICFLAG|  |VERMOD|  |(CONT)|
+-----3+  +----12+  +----16+  +---+---+  +----21+  +----58+
                                   |
                                   |
                               +--+---+
                               |CPFONE|
                               +----12+
```

```
                        +-------+
                        |CMPMOD |
                        +---+---+
                            |
    +-------+-------+-------+-------+-------+-------+
    |       |       |       |       |       |       |
+---+---+ +-+-----+ +-+---+ +-+---+ +-+-----+ +--+----+
|CPPORE | |CPPEXT | |VERMOD| |UERROR| |RETREC | |(COST) |
+----12+ +----16+ +----21+ +-----3+ +--+----+ +----39+
                                        |
                        +---------+-----+-----+
                        |         |           |
                    +---+---+ +---+---+ +---+---+
                    |VEREVT | |UVARN  | |ERRPRO |
                    +----14+ +-----7+ +-------+
```

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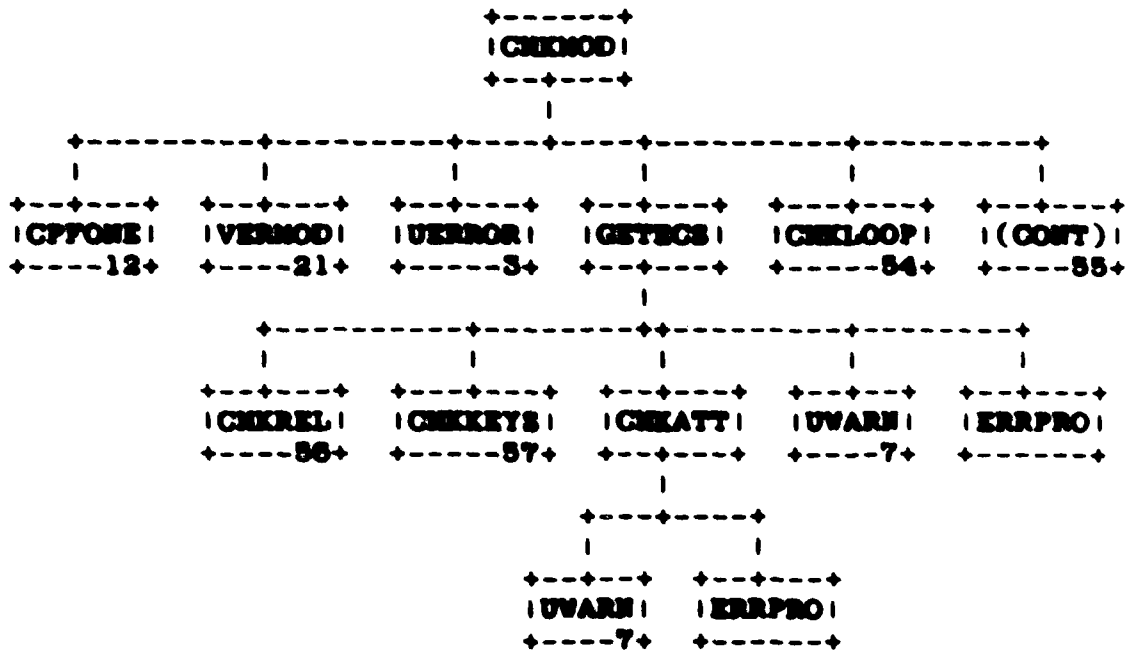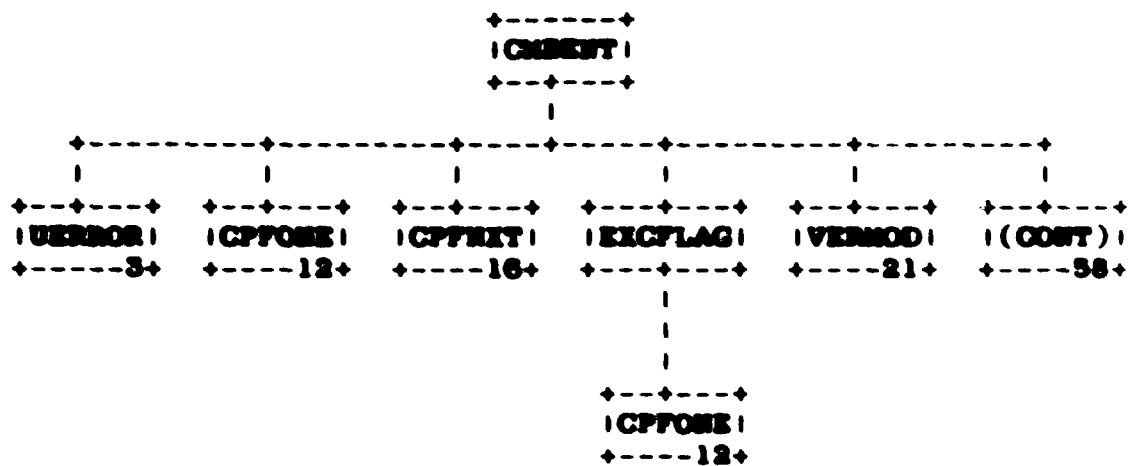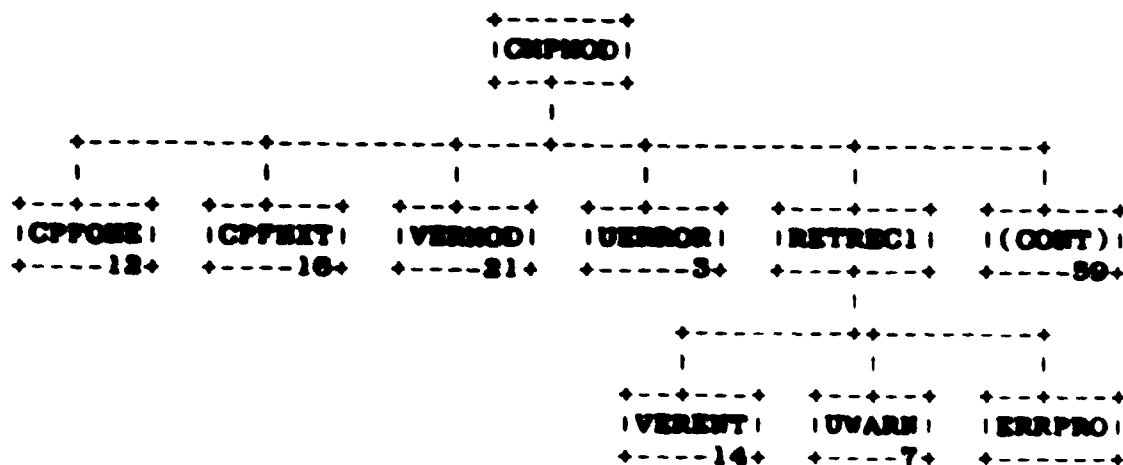
```
                              +-------+
                              |BRANCHR|
                              +---+---+
                                  |
     +---------+---------+----+----+---------+---------+
     |         |         |         |         |         |
 +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
 |(CONT)|  |COPATT|  |CPYDES|  |COPENT|  |CPYMOD|  |(CONT)|
 +----22+  +----60+  +----61+  +----62+  +----63+  +----64+
```

```
                              +-------+
                              |DRPMGKM|
                              +---+---+
                                  |
              +-------------------+-----------+
              |                   |           |
          +---+---+           +---+---+   +---+---+
          |DELMICK|           |UERROR |   |ERRPRO |
          +---+---+           +-----3 +   +-------+
              |
   .      +---+---------+--------------+-----------+
   .      |             |              |           |
   .   +--+--+      +---+---+      +---+---+    +--+---+
  OBOQLE |ERRRPT|   |COFETCH|      |DELIAUC|    |(CONT)|
      8+ +-----2+   +-----44+      +----339+    +----65+
```

41
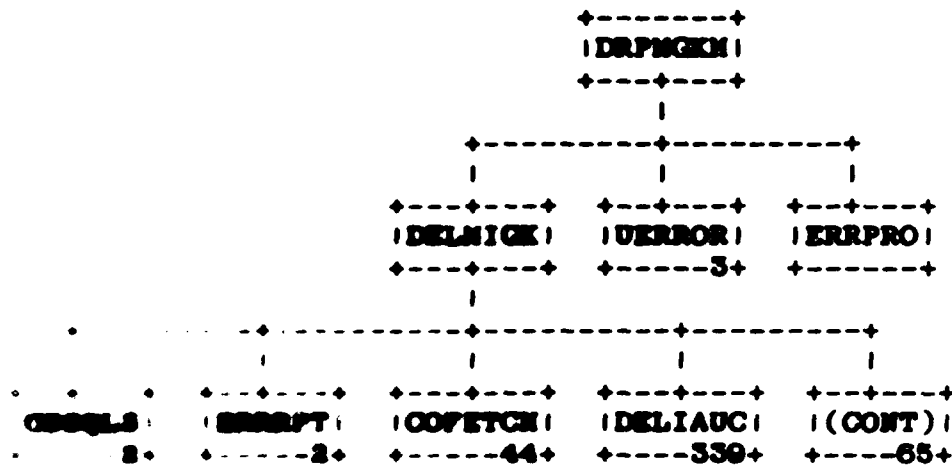
```
                        +-----+
                        |DRPKC|
                        +--+--+
                           |
   +---------+---------+---+----+--------+---------+
   |         |         |        |        |         |
+--+---+  +--+---+  +---+---+  +--+--+  +---+---+  +--+---+
|(CONT)|  |DELKCM|  |DELCMPR|  |DELKC|  |ADDRNUM|  |(CONT)|
+----24+  +----66+  +-----67+  +--+--+  +----355+  +----68+
                                  |
          +---------+----+----+----------+
          |         |         |          |
       +--+---+  +--+---+  +--+---+  +---+---+
       |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
       +-----2+  +-----2+  +-----2+  +------2+
```
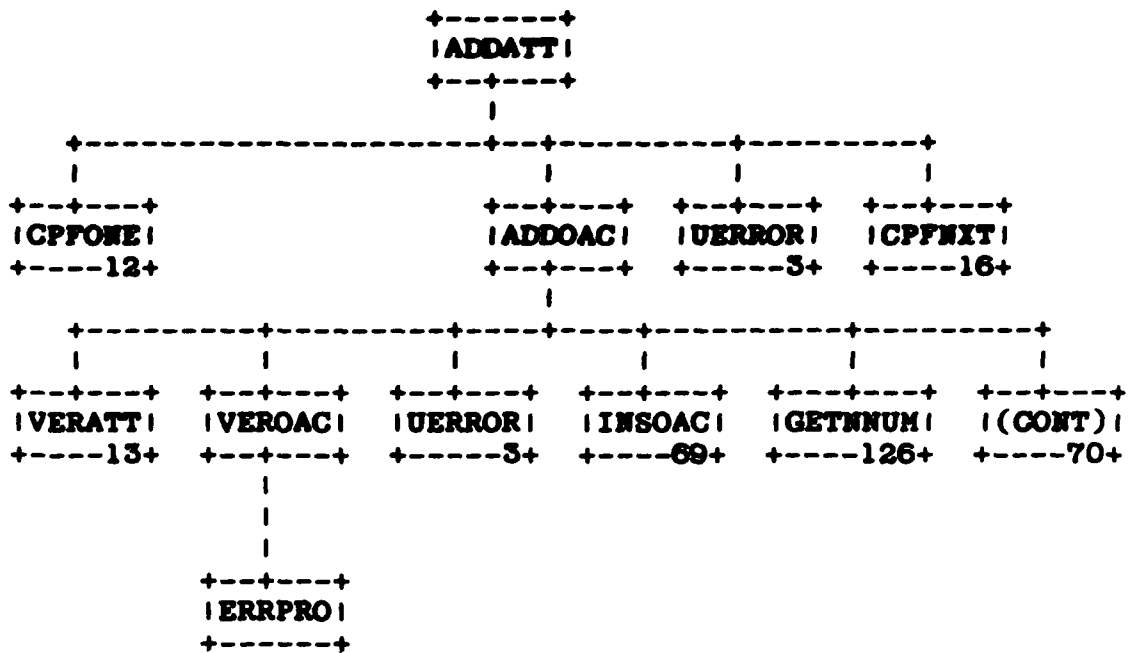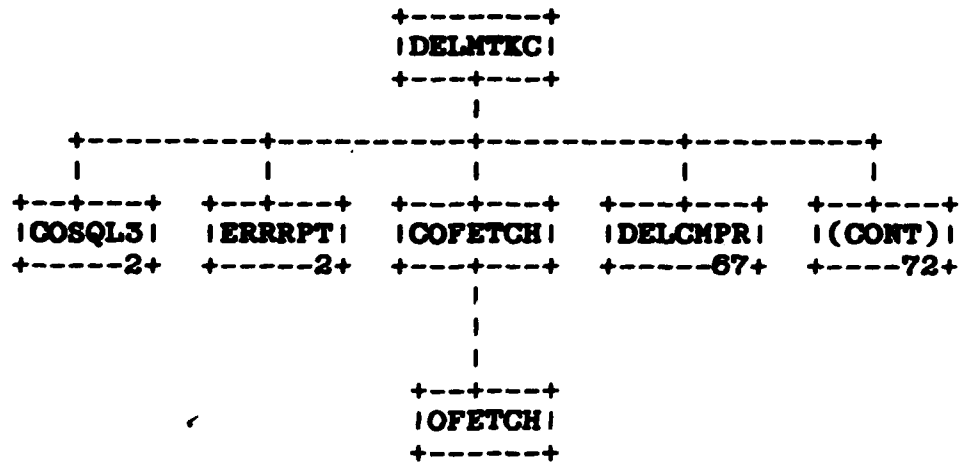
```
                              +-------+
                              | ADDATT |
                              +--+----+
                                 |
        +------------------------+--+--------+---------+
        |                        |           |         |
    +--+---+                 +--+---+     +--+---+   +--+---+
    | CPFONE |                | ADDOAC |   | UERROR |  | CPFNXT |
    +----12+                 +--+---+     +-----3+   +----16+
                                 |
        +---------+---------+----+----+---------+---------+
        |         |         |         |         |         |
    +--+---+   +--+---+   +--+---+   +--+---+   +--+---+   +--+---+
    | VERATT |  | VEROAC |  | UERROR |  | INSOAC |  | GETNNUM |  | (CONT) |
    +----13+   +--+---+   +-----3+   +----69+   +----126+  +----70+
                   |
                   |
                   |
               +--+---+
               | ERRPRO |
               +-------+
```

43

```
                              +-----+
                              |ADDKC|
                              +--+--+
                                 |
      +---------+---------+----+---+----------+---------+
      |         |         |        |          |         |
   +--+---+  +--+---+  +--+--+  +--+---+  +---+---+  +--+---+
   |CPFONE|  |CPFVAL|  |VERKC|  |UERROR|  |GETNNUM|  |(CONT)|
   +----12+  +------+  +---24+  +-----3+  +----126+  +----71+
```

```
                              +-------+
                              |DELMTKC|
                              +---+---+
                                  |
        +----------+----------+---+------+----------+
        |          |          |          |          |
    +--+---+   +--+---+   +---+---+   +---+---+   +--+---+
    |COSQL3|   |ERRRPT|   |COFETCH|   |DELCMPR|   |(CONT)|
    +-----2+   +-----2+   +---+---+   +----67+   +----72+
                              |
                              |
                              |
                          +--+---+
                          |OFETCH|
                          +------+
```

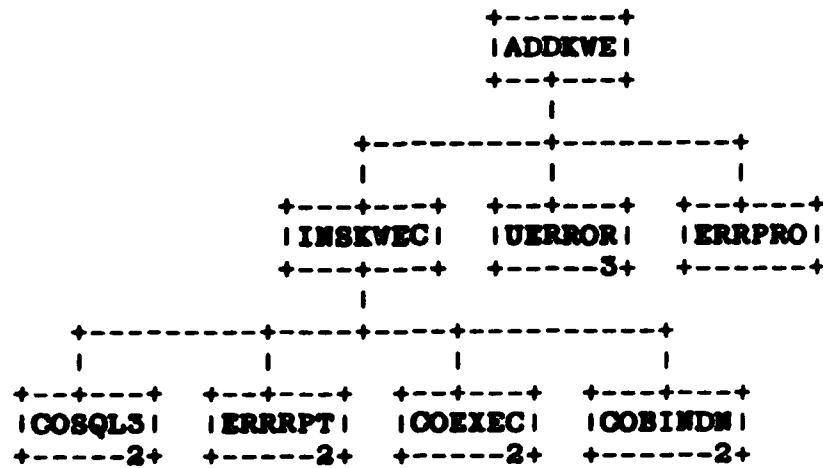45

```
                    +-----+
                    |DRPKV|
                    +--+--+
                       |
      +----------+-----+-----+----------+
      |          |           |          |
   +--+---+   +--+---+    +--+---+    +--+---+
   |(CONT)|   |DELKWEC|   |DELKWRC|   |CPFNXT|
   +----30+   +---319+    +---341+    +----16+
```
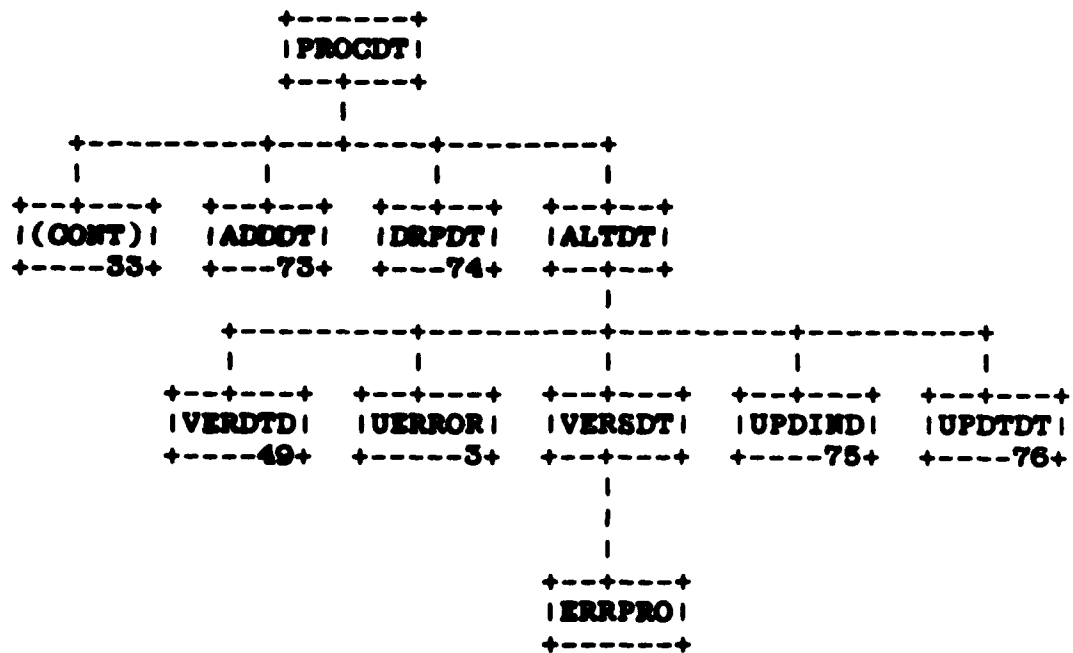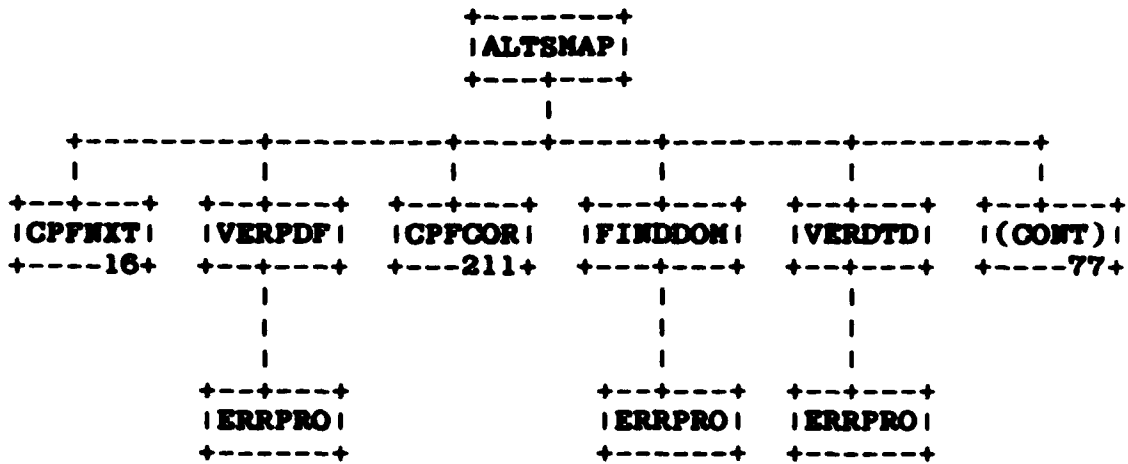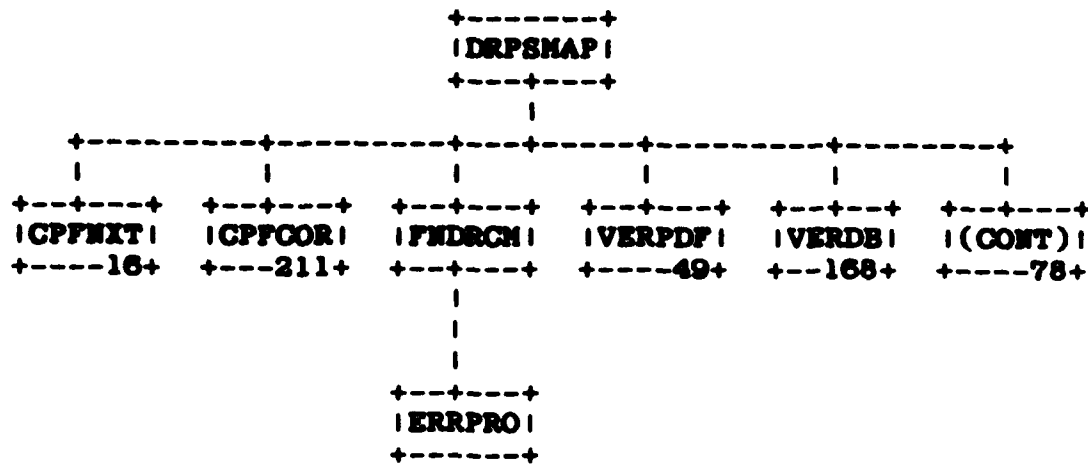
```
                            +------+
                            |ADDKVA|
                            +--+---+
                               |
              +------------+---------+
              |            |         |
          +---+---+    +--+---+   +--+---+
          |INSKVAC|    |UERROR|   |ERRPRO|
          +---+---+    +-----3+   +------+
              |
      +----------+-----+----+-------+
      |          |          |       |
  +--+---+   +--+---+   +--+---+  +--+---+
  |COSQL3|   |ERRRPT|   |COEXEC|  |COBINDN|
  +-----2+   +-----2+   +-----2+  +------2+
```

```
                        +------+
                        |ADDKVE|
                        +--+---+
                           |
            +--------------+---------+
            |              |         |
        +---+---+      +--+---+   +--+---+
        |INSKVEC|      |UERROR|   |ERRPRO|
        +---+---+      +-----3+   +------+
            |
    +----------+------+-------+----------+
    |          |      |       |          |
+---+---+  +--+---+  +--+---+  +---+---+
|COSQL3|   |ERRRPT|  |COEXEC|  |COBINDN|
+-----2+   +-----2+  +-----2+  +------2+
```

```
                      +-------+
                      | PROCDT|
                      +--+----+
                         |
        +------------+-------+--------+
        |            |       |        |
   +--+---+     +--+---+  +--+--+   +--+--+
   |(CONT)|     |ADDDT |  |DRPDT|   |ALTDT|
   +----33+     +---73+   +---74+   +--+--+
                                      |
            +----------+--------+---------+---------+
            |          |        |         |         |
        +--+---+   +--+---+  +--+---+  +--+---+  +--+---+
        |VERDTD|   |UERROR|  |VERSDT|  |UPDIND|  |UPDTDT|
        +----49+   +-----3+  +--+---+  +----75+  +----76+
                              |
                          +--+---+
                          |ERRPRO|
                          +------+
```

```
                              +-------+
                              |ALTSNAP|
                              +--+--+--+
                                 |
     +---------+---------+----+--+---+----------+----------+
     |         |         |         |          |          |
  +--+---+  +--+---+  +--+---+  +--+---+   +--+---+   +--+---+
  |CPFNXT|  |VERPDF|  |CPFCOR|  |FINDDON|  |VERDTD|   |(CONT)|
  +----16+  +--+---+  +---211+  +--+---+   +--+---+   +----77+
               |                   |          |
               |                   |          |
               |                   |          |
            +--+---+            +--+---+   +--+---+
            |ERRPRO|            |ERRPRO|   |ERRPRO|
            +------+            +------+   +------+
```

50

```
                              +--------+
                              |DRPSHAP |
                              +--+--+--+
                                 |
      +-----------+-----------+--+--+-----------+-----------+
      |           |           |           |           |           |
  +--+---+    +--+---+    +--+---+    +--+---+    +--+---+    +--+---+
  |CPFNXT|    |CPFCOR|    |FNDRCM|    |VERPDF|    |VERDB |    |(CONT)|
  +----16+    +---211+    +--+---+    +----49+    +--168+    +----78+
                            |
                            |
                            |
                         +--+---+
                         |ERRPRO|
                         +------+
```

```
                                    +------+
                                    |ALTMAP|
                                    +--+---+
                                       |
        +-----------+---------+----+----+---------+---------+
        |           |         |         |         |         |
   +--+---+    +--+---+   +---+---+  +---+---+  +--+---+  +--+---+
   |(CONT)|    |ADDMAP|   |STRNCPY|  |TOLOVER|  |VERREL|  |VERAUC|
   +----34+    +----79+   +-------+  +-------+  +----80+  +--+---+
                                                            |
                                                            |
                                                            |
                                                       +--+---+
                                                       |ERRPRO|
                                                       +------+
```
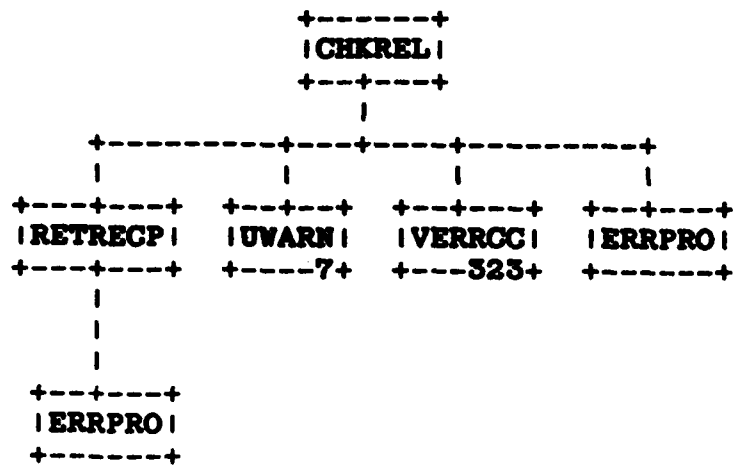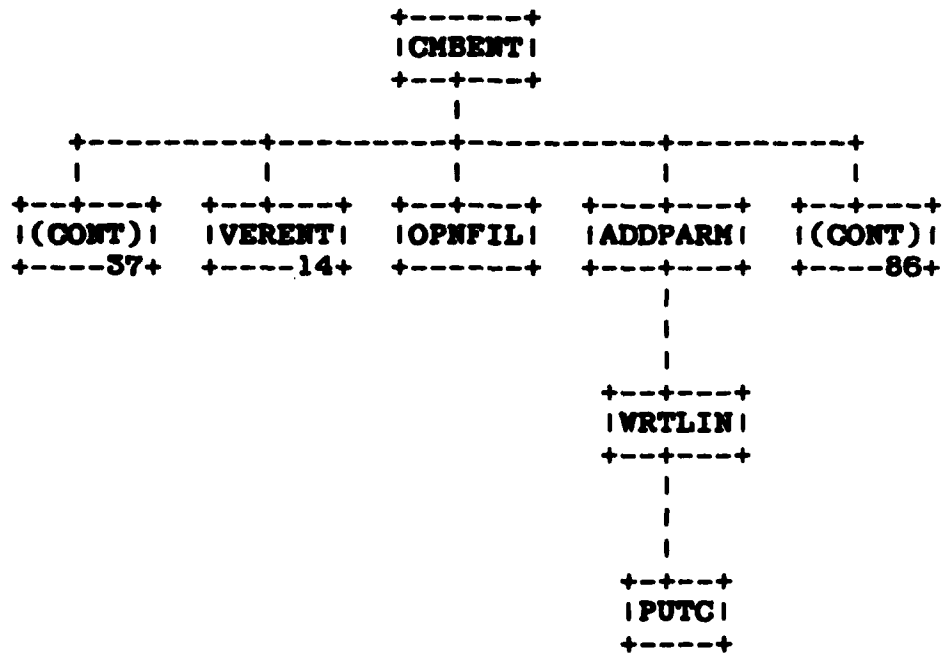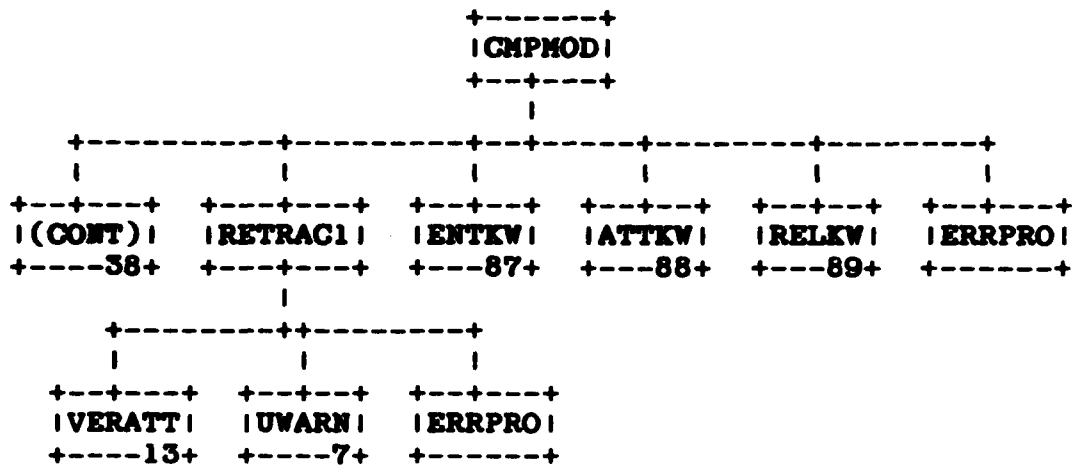
3-1167
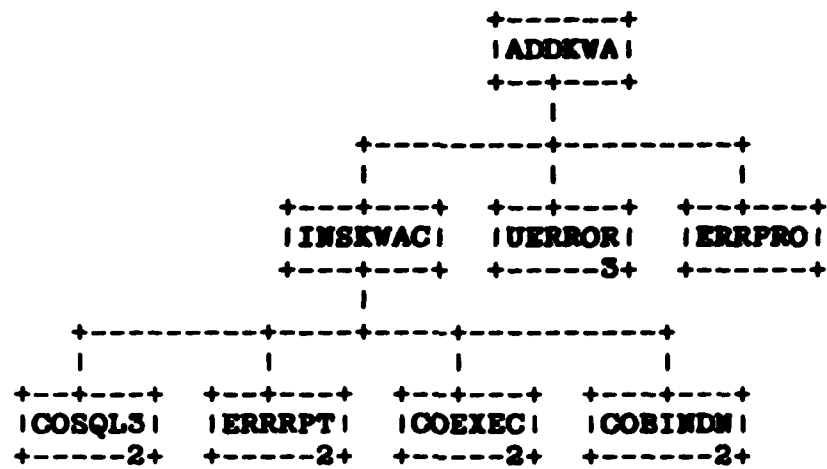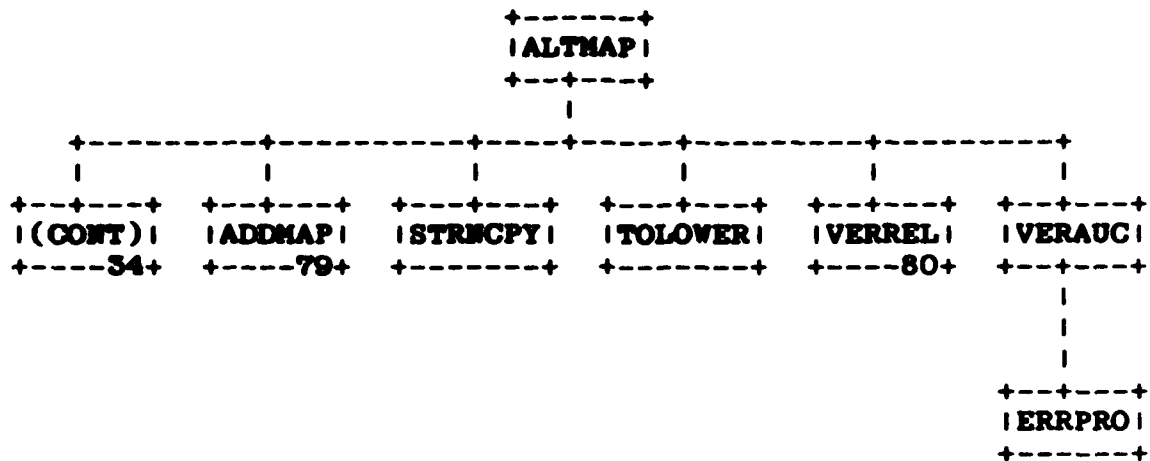
```
                    +-------+
                    |ALTCARD|
                    +---+---+
                        |
        +-----------+-----------++---------+---------+
        |           |           |          |         |
    +--+---+    +--+---+    +--+--+    +--+---+    +--+---+
    |CPPONE|    |LOWUPP|    |UWARN|    |CPFNXT|    |UERROR|
    +----12+    +----12+    +----7+    +----16+    +-----3+
```

```
                            +------+
                            |ALTREL|
                            +--+---+
                               |
   +-----------+--------+--+-------+--------+---------+
   |           |        |         |        |         |
+--+---+    +--+---+  +--+---+  +--+--+  +--+---+  +--+---+
|(CONT)|    |UPDTRC|  |ADDMIG|  |ADDKW|  |DRPMIG|  |(CONT)|
+----35+    +--+---+  +----81+  +---18+  +----82+  +----83+
              |
   +---------+----+----+---------+
   |         |         |         |
+--+---+  +--+---+  +--+---+  +---+---+
|COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
+-----2+  +-----2+  +-----2+  +------2+
```
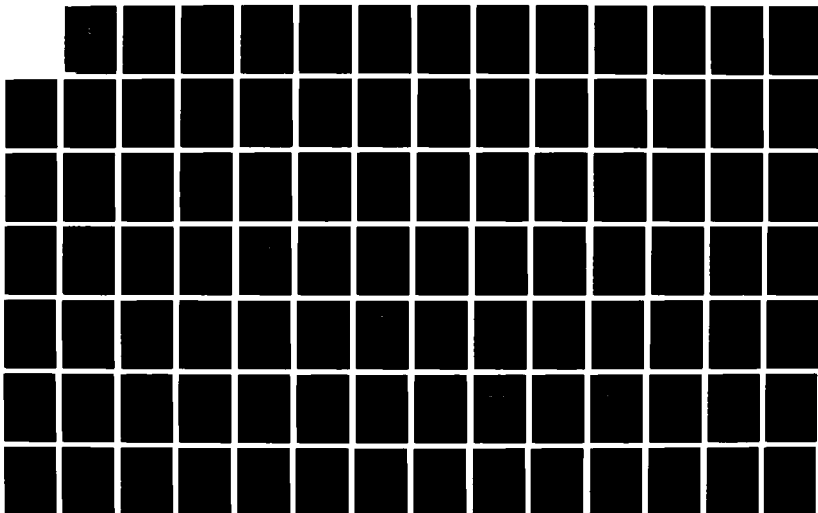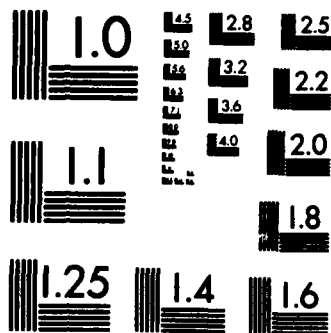
MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS-1963-A

```
                              +--------+
                              |CHKLOOP |
                              +---+---+
                                  |
       +----------+----------+----+------+----------+----------+
       |          |          |           |          |          |
   +--+---+   +--+---+   +---+---+   +--+--+    +---+---+   +--+---+
   |COSQL3|   |ERRRPT|   |SPRINTF|   |UWARN|    |COFETCH|   |(CONT)|
   +-----2+   +-----2+   +-------+   +----7+    +-----44+   +----84+
```
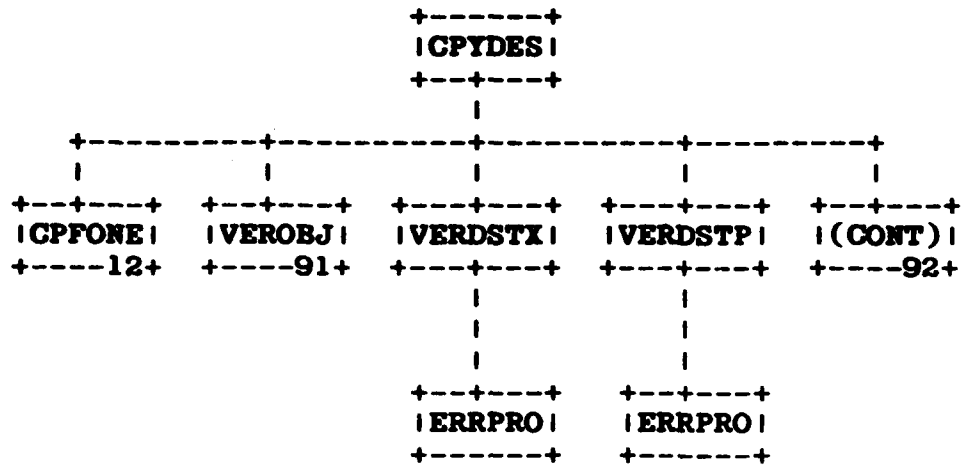
```
                        +------+
                        |CHKMOD|
                        +--+---+
                           |
        +----------+---+---+----+--------+
        |              |        |        |
    +--+---+       +--+---+  +--+--+  +--+---+
    |(CONT)|       |UPDMOD|  |UWARN|  |ERRPRO|
    +----36+       +----21+  +----7+  +------+
```

56

```
                              +-------+
                              |CHKREL |
                              +--+--+-+
                                 |
            +-----------+----+----+---------+
            |           |         |         |
        +---+---+   +--+--+   +--+---+   +--+---+
        |RETRECP|   |UWARN|   |VERRCC|   |ERRPRO|
        +---+---+   +----7+   +---323+   +------+
            |
            |
            |
        +--+---+
        |ERRPRO|
        +------+
```

```
                        +-------+
                        |CHKKEYS|
                        +---+---+
                            |
        +----------+----------+----+---+----------+----------+
        |          |          |        |          |          |
   +--+--+    +--+---+    +--+--+  +--+---+    +--+---+    +--+---+
   |OOPEN|    |UERROR|    |OSQL3|  |ODFINN|    |OBINDN|    |(CONT)|
   +-----+    +-----3+    +-----+  +------+    +------+    +----85+
```

```
                              +------+
                              |CMBENT|
                              +--+---+
                                 |
     +----------+----------+----------+----------+
     |          |          |          |          |
  +--+---+   +--+---+   +--+---+   +---+---+   +--+---+
  |(CONT)|   |VERENT|   |OPNFIL|   |ADDPARM|   |(CONT)|
  +----37+   +----14+   +------+   +---+---+   +----86+
                                       |
                                       |
                                       |
                                   +--+---+
                                   |WRTLIN|
                                   +--+---+
                                       |
                                       |
                                       |
                                    +-+--+
                                    |PUTC|
                                    +----+
```

```
                              +------+
                              |CMPMOD|
                              +--+---+
                                 |
       +----------+---------+--+----+--------+--------+
       |          |         |       |        |        |
    +--+---+  +---+----+  +--+--+  +-+-+--+  +-+-+--+  +-+----+
    |(CONT)|  |RETRAC1 |  |ENTKW|  |ATTKW |  |RELKW |  |ERRPRO|
    +----38+  +--+-+---+  +---87+  +---88+  +---89+  +------+
                 |
        +--------++--------+
        |        |         |
     +--+---+ +--+-+--+ +--+---+
     |VERATT| |UWARN | |ERRPRO|
     +----13+ +----7+ +------+
```

```
                         +------+
                         |COPATT|
                         +--+---+
                            |
     +----------+----------+-----+-----+----------+----------+
     |          |          |     |     |          |          |
  +--+---+   +--+---+   +--+---+  +---+---+  +--+---+   +--+---+
  |UERROR|   |CPFONE|   |CPFNXT|  |EXCFLAG|  |VERMOD|   |(CONT)|
  +-----3+   +----12+   +----16+  +-----37+  +----21+   +----90+
```

```
                              +------+
                              |CPYDES|
                              +--+---+
                                 |
         +---------+---------+---------+---------+
         |         |         |         |         |
     +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
     |CPFONE|  |VEROBJ|  |VERDSTX|  |VERDSTP|  |(CONT)|
     +----12+  +----91+  +---+---+  +---+---+  +----92+
                             |          |
                             |          |
                             |          |
                         +--+---+    +--+---+
                         |ERRPRO|    |ERRPRO|
                         +------+    +------+
```

```
                              +------+
                              |COPENT|
                              +--+---+
                                 |
       +----------+----------+----+-----+----------+----------+
       |          |          |          |          |          |
    +--+---+   +--+---+   +--+---+   +---+---+   +--+---+   +--+---+
    |UERROR|   |CPFONE|   |CPFNXT|   |EXCFLAG|   |VERENT|   |(CONT)|
    +-----3+   +----12+   +----16+   +-----37+   +----14+   +----93+
```

```
                              +------+
                              |CPYMOD|
                              +--+---+
                                 |
        +---------+---------+----+----+---------+---------+
        |         |         |         |         |         |
     +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
     |CPFONE|  |UERROR|  |VERMOD|  |CPFNXT|  |OPNFIL|  |(CONT)|
     +----12+  +-----3+  +----21+  +----16+  +------+  +----94+
```

```
                            +-------+
                            |BRANCHR|
                            +---+---+
                                |
   +----------+----------+------+------+----------+----------+
   |          |          |             |          |          |
+--+---+   +--+---+   +--+---+      +--+---+    +--+---+   +--+---+
|(CONT)|   |CRTATT|   |CRTALI|      |CRTDOM|    |CRTENT|   |(CONT)|
+----39+   +----95+   +----96+      +----97+    +----98+   +----99+
```

```
                              +-------+
                              |DELMIGK|
                              +---+---+
                                  |
           +----------+----------+----------+----------+
           |          |          |          |          |
        +--+---+   +---+---+   +--+---+   +---+---+   +--+---+
        |(CONT)|   |SPRINTF|   |UERROR|   |ADDRNUM|   |(CONT)|
        +----40+   +-------+   +-----3+   +----355+   +---100+
```
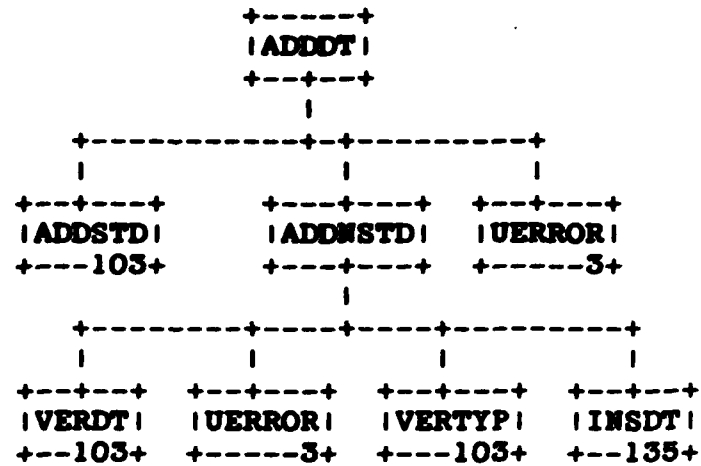
```
                        +------+
                        |DELKCM|
                        +--+---+
                           |
        +----------+-----+----+----+----------+
        |          |          |          |
    +--+---+    +--+---+    +--+---+    +---+---+
    |COSQL3|    |ERRRPT|    |COEXEC|    |COBINDM|
    +-----2+    +-----2+    +-----2+    +------2+
```
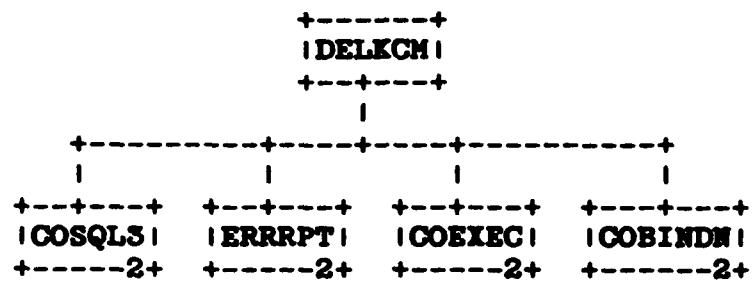
```
                          +-------+
                          |DELCMPR|
                          +---+---+
                              |
        +-----------+----+----+----------+
        |           |         |          |
     +--+---+    +--+---+   +--+---+   +---+---+
     |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
     +-----2+    +-----2+   +-----2+   +------2+
```

```
                    +-----+
                    |DRPKC|
                    +--+--+
                       |
          +-----------+----------+
          |           |          |
      +--+---+    +--+---+    +--+---+
      |(CONT)|    |CPFNXT|    |ERRPRO|
      +----41+    +----16+    +------+
```

```
                    +------+
                    |INSOAC|
                    +--+---+
                       |
       +----------+----+----+----------+
       |          |         |          |
   +--+---+   +--+---+   +--+---+   +---+---+
   |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
   +-----2+   +-----2+   +-----2+   +------2+
```

```
                        +------+
                        |ADDOAC|
                        +--+---+
                           |
              +----------+---------+
              |          |         |
          +--+---+    +--+---+   +--+---+
          |(CONT)|    |INSAUC|   |ERRPRO|
          +----42+    +---181+   +------+
```

```
                              +-----+
                              |ADDKC|
                              +--+--+
                                 |
         +---------------+-------+-------+----------+
         |               |               |          |
     +--+---+        +--+--+         +--+---+     +--+--+
     |(CONT)|        |INSKC|         |CPFNXT|     |ADDKM|
     +----43+        +--+--+         +----16+     +--101+
                        |
             +---------+-----+-------+----------+
             |         |             |          |
         +--+---+   +--+---+      +--+---+    +---+---+
         |COSQL3|   |ERRRPT|      |COEXEC|    |COBINDN|
         +-----2+   +-----2+      +-----2+    +------2+
```
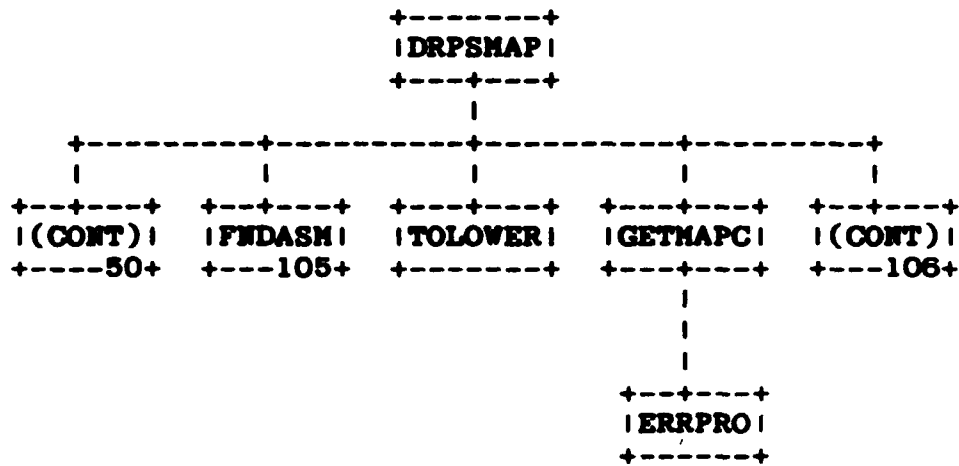
```
                          +-------+
                          |DELMTKC|
                          +---+---+
                              |
         +----------+---------+---------+----------+
         |          |         |         |          |
     +--+---+   +---+---+   +--+---+  +---+---+  +--+---+
     |(CONT)|   |SPRINTF|   |UERROR|  |ADDRNUM|  |(CONT)|
     +----44+   +-------+   +-----3+  +----355+  +---102+
```
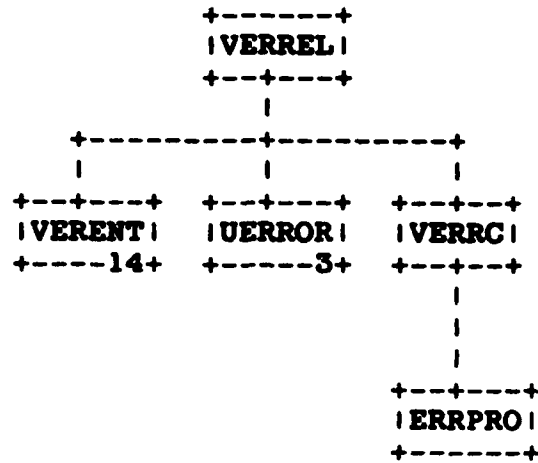
```
                        +-----+
                        |ADDDT|
                        +--+--+
                           |
            +-------------+-+---------+
            |             |           |
        +--+---+      +---+---+    +--+---+
        |ADDSTD|      |ADDWSTD|    |UERROR|
        +---103+      +---+---+    +-----3+
                          |
            +---------+----+----+---------+
            |         |         |         |
        +--+--+   +--+---+   +--+---+   +--+--+
        |VERDT|   |UERROR|   |VERTYP|   |INSDT|
        +--103+   +-----3+   +---103+   +--135+
```

```
                          +-----+
                          |DRPDT|
                          +--+--+
                             |
        +----------+----+----+---------+
        |          |         |         |
    +--+---+   +--+---+   +---+---+  +--+--+
    |VERDTD|   |UERROR|   |DTUSAGE|  |DELDT|
    +----49+   +-----3+   +---+---+  +--104+
                              |
               +----------+----------+
               |          |          |
           +---+---+  +---+---+   +---+---+
           |VERDFDT|  |VERDIDT|   |VERACDT|
           +----310+  +----310+   +----245+
```

75

```
                         +------+
                         |UPDIND|
                         +--+---+
                            |
       +----------+----+----+----+----------+
       |          |         |         |
   +--+---+   +--+---+   +--+---+   +---+---+
   |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
   +-----2+   +-----2+   +-----2+   +------2+
```

```
                         +------+
                         |UPDTDT|
                         +--+---+
                            |
          +-----------+-----+-----+-----------+
          |           |           |           |
      +--+---+    +--+---+    +--+---+    +---+---+
      |COSQL3|    |ERRRPT|    |COEXEC|    |COBINDN|
      +-----2+    +-----2+    +-----2+    +------2+
```

```
                            +-------+
                            |ALTSMAP|
                            +---+---+
                                |
        +----------+----------+---+----+---------+----------+
        |          |          |        |         |          |
     +--+---+   +---+---+   +--+---+  +--+---+  +--+---+   +--+---+
     |(CONT)|   |SPRINTF|   |UERROR|  |COSQL3|  |ERRRPT|   |(CONT)|
     +----49+   +-------+   +-----3+  +-----2+  +-----2+   +---105+
```

```
                              +-------+
                              |DRPSMAP|
                              +---+---+
                                  |
      +---------+---------+-------+-------+---------+--------+
      |         |         |               |        |
   +--+---+  +--+---+  +--+---+       +---+---+  +--+---+
   |(CONT)|  |FNDASM|  |TOLOWER|      |GETMAPC|  |(CONT)|
   +----50+  +--105+  +-------+       +---+---+  +---106+
                                          |
                                          |
                                          |
                                      +--+---+
                                      |ERRPRO|
                                      +------+
```

```
                          +------+
                          |ADDMAP|
                          +--+---+
                             |
      +-----------+--------++---------+---------+
      |           |        |          |         |
   +--+---+   +---+---+  +---+---+  +--+---+  +--+---+
   |CPFONE|   |TOLOWER|  |STRNCMP|  |CPFNXT|  |(CONT)|
   +----12+   +-------+  +-------+  +----16+  +---107+
```

```
                         +------+
                         |VERREL|
                         +--+---+
                            |
              +------------+-----------+
              |            |           |
          +--+---+     +--+---+     +--+--+
          |VERENT|     |UERROR|     |VERRC|
          +----14+     +-----3+     +--+--+
                                       |
                                       |
                                       |
                                    +--+---+
                                    |ERRPRO|
                                    +------+
```
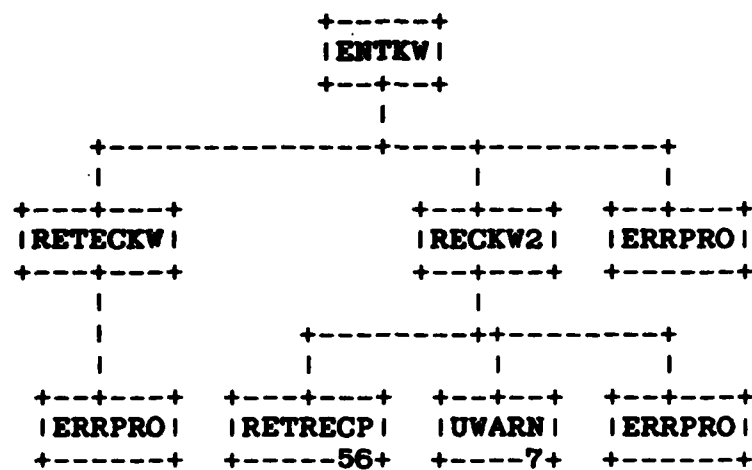
81

```
                          +------+
                          |ADDMIG|
                          +--+---+
                             |
     +----------+---------+------+--+--------+----------+
     |          |         |         |        |          |
  +--+---+   +--+--+   +--+---+  +--+---+  +---+---+  +--+---+
  |CPFONE|   |VERKC|   |UERROR|  |VERRCC|  |MKRNLST|  |(CONT)|
  +----12+   +---24+   +-----3+  +---323+  +---+---+  +---108+
                                              |
                                  +----------+---------+
                                  |          |         |
                               +--+---+   +--+---+  +--+---+
                               |CPFONE|   |UERROR|  |CPFNXT|
                               +----12+   +-----3+  +----16+
```

```
                              +------+
                              |DRPMIG|
                              +--+---+
                                 |
     +----------+----------+-----+--+----------+----------+
     |          |          |        |          |          |
 +--+---+   +--+--+    +--+--+   +--+---+   +---+---+   +---+---+
 |CPFONE|   |VERKC|    |UERROR|  |VERRCC|   |DRPMGRC|   |DELCPRC|
 +----12+   +---24+    +-----3+  +---323+   +----365+   +----366+
```

```
                    +------+
                    |ALTREL|
                    +--+---+
                       |
           +-----------+---------+
           |           |         |
      +--+---+     +--+--+    +---+---+
      |(CONT)|     |DRPKW|    |DELMTKC|
      +----53+     +---30+    +-----44+
```

```
                              +-------+
                              |CHKLOOP|
                              +---+---+
                                  |
      +---------+---------+---+---+---+---------+----------+
      |         |         |       |         |          |
  +--+---+  +---+---+  +---+---+  +--+---+  +---+---+  +---+---+
  |(CONT)|  |BLOOPCK|  |TLOOPCK|  |COEXEC|  |CODFINN|  |COBINDN|
  +----54+  +----109+  +----110+  +-----2+  +----102+  +------2+
```

85

```
                          +-------+
                          |CHKKEYS|
                          +---+---+
                              |
        +----------+---------+---------+---------+
        |          |         |         |         |
    +--+---+   +--+--+   +--+---+   +--+--+   +--+---+
    |(CONT)|   |OEXEC|   |OFETCH|   |UWARN|   |ERRPRO|
    +----57+   +-----+   +------+   +----7+   +------+
```

```
                              +------+
                              |CMBENT|
                              +--+---+
                                 |
          +----------+----------+----------+----------+
          |          |          |          |          |
      +--+---+    +---+---+   +--+---+   +---+---+   +--+---+
      |(CONT)|    |FRTOREL|   |BLKCL1|   |GENENT1|   |(CONT)|
      +----58+    +----111+   +---112+   +----113+   +---114+
```
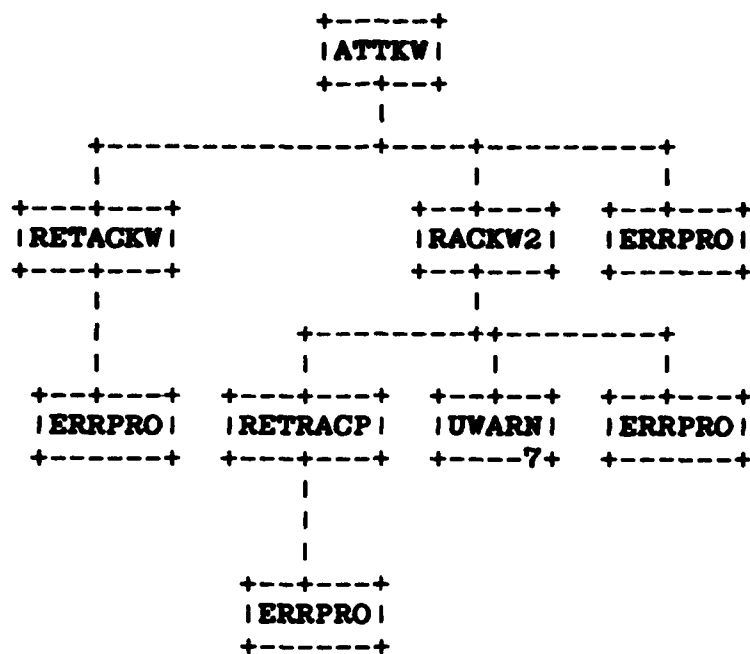
```
                              +-----+
                              |ENTKW|
                              +--+--+
                                 |
              +--------------+----+---------+
              |              |              |
          +---+---+      +--+---+       +--+---+
          |RETECKW|      |RECKW2|       |ERRPRO|
          +---+---+      +--+---+       +------+
              |             |
              |         +---------++--------+
              |         |         |         |
          +--+---+  +---+---+  +--+--+   +--+---+
          |ERRPRO|  |RETRECP|  |UWARN|   |ERRPRO|
          +------+  +-----56+  +----7+   +------+
```

```
                        +-----+
                        |ATTKW|
                        +--+--+
                           |
        +-----------------+----+---------+
        |                      |         |
    +---+---+              +--+---+   +--+---+
    |RETACKW|              |RACKW2|   |ERRPRO|
    +---+---+              +--+---+   +------+
        |                    |
        |            +--------++--------+
        |            |         |        |
    +---+---+    +---+---+  +--+--+  +--+---+
    |ERRPRO|    |RETRACP|  |UWARN|  |ERRPRO|
    +------+    +---+---+  +----7+  +------+
                    |
                    |
                +--+---+
                |ERRPRO|
                +------+
```

```
                    +-----+
                    |RELKW|
                    +--+--+
                       |
        +--------------+----+---------+
        |                   |         |
    +---+---+           +--+--+    +--+---+
    |RETRCKW|           |RRCKW2|   |ERRPRO|
    +---+---+           +--+--+    +------+
        |                  |
        |          +-------++--------+
        |          |        |        |
    +--+---+   +---+---+  +--+--+  +--+---+
    |ERRPRO|   |GETRCNM|  |UWARN|  |ERRPRO|
    +------+   +---+---+  +----7+  +------+
                   |
        +----------++---------+
        |          |          |
    +---+---+   +---+---+   +--+---+
    |GETRCID|   |RETRECP|   |ERRPRO|
    +---+---+   +-----56+   +------+
        |
        |
    +--+---+
    |ERRPRO|
    +------+
```
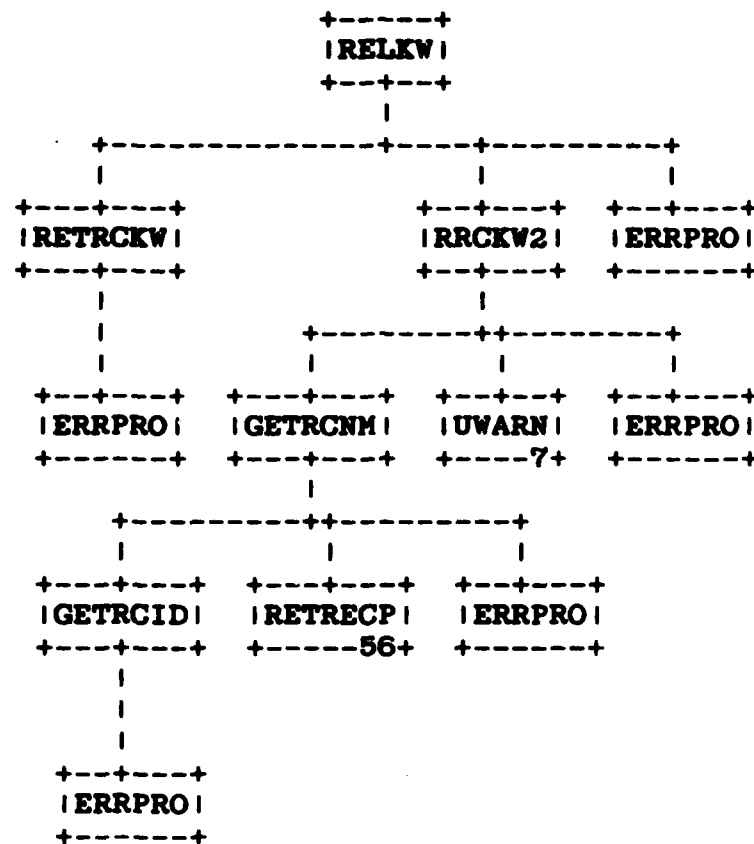
```
                              +------+
                              |COPATT|
                              +--+---+
                                 |
        +-----------+-----------++----------+----------+
        |           |           |           |          |
    +--+---+    +---+---+    +---+---+    +---+---+   +--+---+
    |(CONT)|    |VERACMM|    |ICOPATT|    |FCOPATT|   |ERRPRO|
    +----60+    +---+---+    +----115+    +----116+   +------+
                    |
                    |
                    |
                +--+---+
                |ERRPRO|
                +------+
```

```
                      +------+
                      |VEROBJ|
                      +--+---+
                         |
      +----------+-----------+---+-----+----------+---------+
      |          |           |         |          |         |
  +---+---+  +--+---+    +--+---+   +--+---+   +--+--+   +--+---+
  |TOUPPER|  |CPFNXT|    |VERREL|   |PRINTF|   |VERDI|   |(CONT)|
  +-------+  +----16+    +----80+   +------+   +--+--+   +---117+
                                                  |
                                                  |
                                                  |
                                              +--+---+
                                              |ERRPRO|
                                              +------+
```

```
                            +------+
                            |CPYDES|
                            +--+---+
                               |
          +----------+-------------+--------+----------+
          |          |             |        |          |
      +--+---+   +--+---+     +---+---+   +--+---+   +---+---+
      |(CONT)|   |VERMOD|     |SPRINTF|   |UERROR|   |WRTDSC4|
      +----61+   +----21+     +-------+   +-----3+   +----118+
```

93

```
                          +------+
                          |COPENT|
                          +--+---+
                             |
     +-------------------+----+----+---------+---------+
     |                   |         |         |         |
  +--+---+           +---+---+ +---+---+ +--+---+ +--+---+
  |(CONT)|           |ICOPENT| |FCOPENT| |VERMOD| |ERRPRO|
  +----62+           +---+---+ +----119+ +----21+ +------+
                         |
     +---------+--------++---------+---------+
     |         |         |         |         |
  +---+---+ +--+--+ +--+---+ +---+---+ +--+---+
  |GETNNUM| |INSEC| |UERROR| |INSECNM| |(CONT)|
  +----126+ +--128+ +-----3+ +----125+ +---120+
```
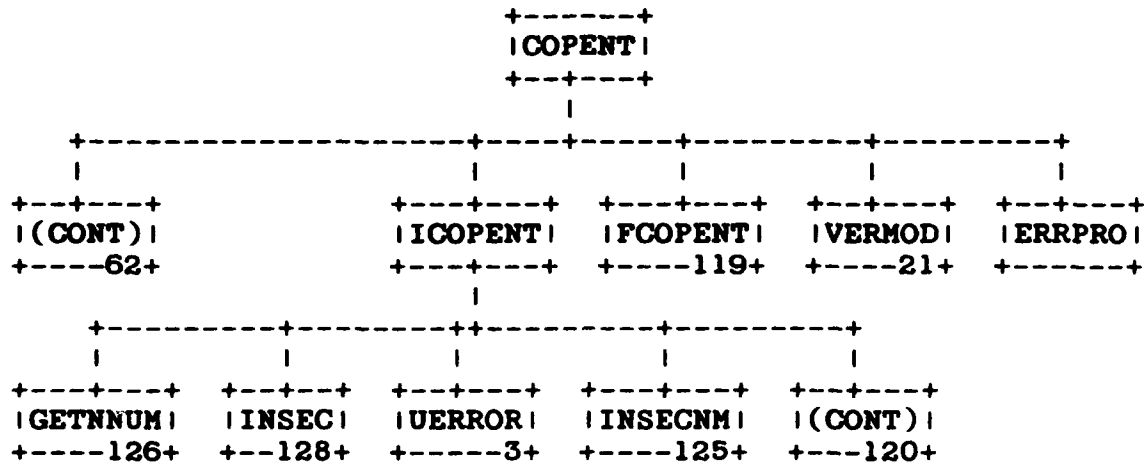
```
                          +------+
                          |CPYMOD|
                          +--+---+
                             |
      +----------+----------++----------+----------+
      |          |          |           |          |
  +--+---+    +--+---+   +--+---+    +--+---+   +--+---+
  |(CONT)|    |EXCFLAG|  |ADDPARM|   |ALLATT|   |(CONT)|
  +----63+    +-----37+  +-----58+   +--+---+   +---121+
                                       |
            +----------+----------+----------+----------+
            |          |          |          |          |
        +--+---+    +--+---+   +---+---+  +---+---+  +--+---+
        |COSQL3|    |ERRRPT|   |COFETCH|  |STRNCMP|  |(CONT)|
        +-----2+    +-----2+   +-----44+  +-------+  +---122+
```

```
                          +------+
                          |CRTATT|
                          +--+---+
                             |
      +---------+---------+----+----+---------+---------+
      |         |         |         |         |         |
  +--+---+  +--+---+  +--+---+  +--+---+  +---+---+  +--+--+
  |UERROR|  |CPFONE|  |VERDOM|  |BLDATT|  |INSACNM|  |ADDKW|
  +-----3+  +----12+  +----19+  +---123+  +----124+  +---18+
```

```
                            +------+
                            |CRTALI|
                            +--+---+
                               |
        +----------+----------+----+----+----------+----------+
        |          |          |         |          |          |
    +--+---+   +--+---+   +--+---+   +--+---+   +--+---+   +--+---+
    |CPFONE|   |LOWUPP|   |VERENT|   |UERROR|   |VERATT|   |(CONT)|
    +----12+   +----12+   +----14+   +-----3+   +----13+   +---125+
```

```
                              +------+
                              |CRTDOM|
                              +--+---+
                                 |
       +----------+----------+----+-----+----------+----------+
       |          |          |          |          |          |
    +--+---+   +--+---+   +--+---+   +---+---+   +--+---+   +--+---+
    |CPFONE|   |VERDOM|   |UERROR|   |GETNNUM|   |INSDOM|   |PROCDT|
    +----12+   +----19+   +-----3+   +----126+   +---127+   +----33+
```

```
                                    +------+
                                    |CRTENT|
                                    +--+---+
                                       |
        +---------+---------+----+-----+---------+--------+
        |         |         |          |         |        |
     +--+---+  +--+---+  +--+---+  +---+---+  +--+--+  +--+---+
     |UERROR|  |CPFONE|  |VERENT|  |GETNNUM|  |INSEC|  |(CONT)|
     +-----3+  +----12+  +----14+  +----126+  +--128+  +---129+
```

```
                          +-------+
                          |BRANCHR|
                          +--+--+-+
                             |
     +---------+---------+---+---+---------+---------+
     |         |         |       |         |         |
  +--+---+  +--+---+  +--+---+  +--+---+  +---+---+  +--+---+
  |(CONT)|  |CRTMAP|  |CRTMOD|  |CRTREL|  |CRTVIEW|  |(CONT)|
  +----64+  +---130+  +---131+  +---132+  +----133+  +---134+
```

```
                                    +--------+
                                    |DELMIGK |
                                    +---+---+
                                        |
    +-----------+-----------+-----+----+---------+-----------+
    |           |           |          |         |           |
+--+---+    +---+---+    +---+---+   +--+---+  +---+---+   +---+---+
|(CONT)|    |DELKCMT|    |DELAUCL|   |COEXEC|  |CODFINN|   |COBINDN|
+----65+    +----389+   +----340+   +-----2+  +----102+   +------2+
```

```
                            +-----+
                            |ADDKM|
                            +--+--+
                               |
            +---------+----+----+----+---------+
            |         |         |              |
        +--+---+  +--+---+  +--+---+  +--+---+
        |VERAUC|  |ADDOAC|  |UERROR|  |INSKCM|
        +----51+  +----42+  +-----3+  +--+---+
                                         |
                  +---------+----+----+---------+
                  |         |         |         |
              +--+---+  +--+---+  +--+---+  +---+---+
              |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
              +-----2+  +-----2+  +-----2+  +------2+
```

102

```
                              +-------+
                              |DELMTKC|
                              +---+---+
                                  |
          +----------+----------+---+---+----------+----------+
          |          |          |       |          |          |
      +--+---+    +--+---+   +--+--+  +--+---+   +--+---+   +--+---+
      |(CONT)|    |DELTEXT|  |DELKC|  |COEXEC|   |CODFINN|  |COBINDN|
      +----72+    +----373+  +---41+  +-----2+   +--+---+   +------2+
                                                    |
                                                    |
                                                    |
                                                +--+---+
                                                |ODFINN|
                                                +------+
```
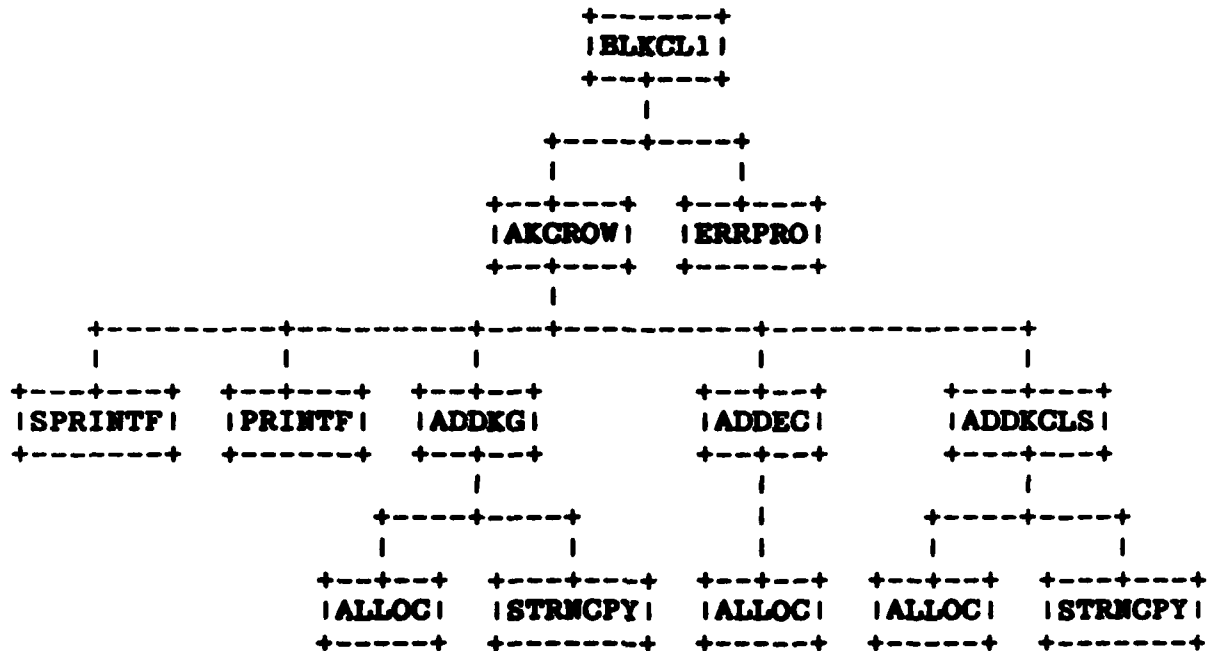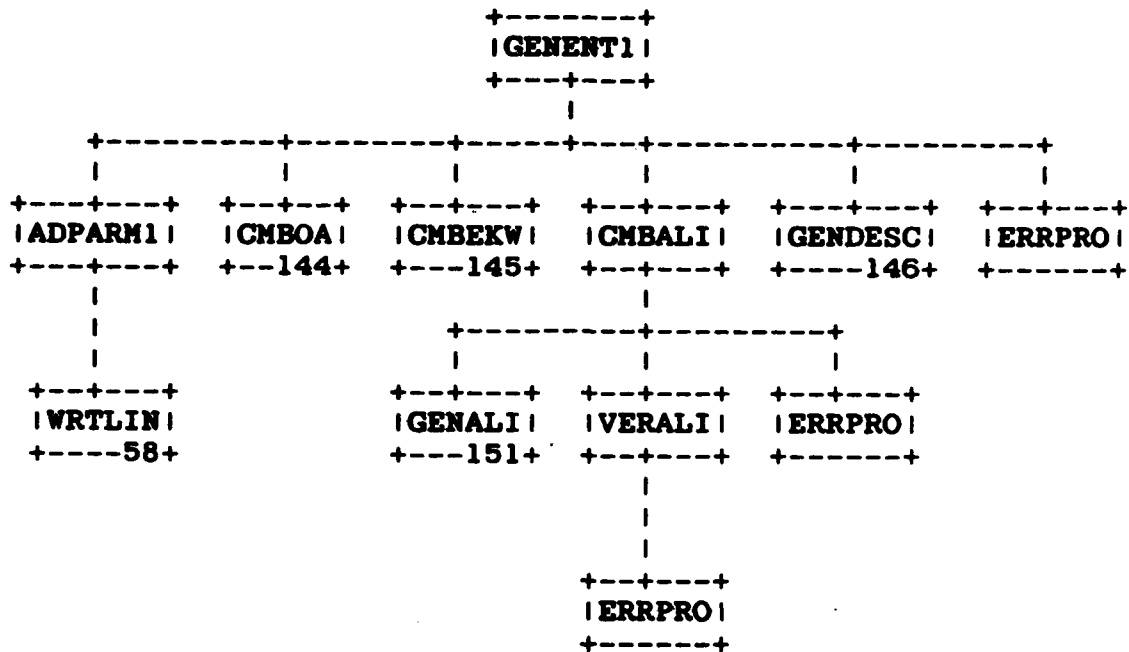
3-1218

103

```
                          +------+
                          |ADDSTD|
                          +--+---+
                             |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +--+---+  +--+---+  +--+--+   +--+---+   +--+--+
    |VERSDT|  |UERROR|  |VERDT|   |VERTYP|   |INSDT|
    +----48+  +-----3+  +--+--+   +--+---+   +--135+
                           |         |
                           |         |
                           |         |
                           |         |
                        +--+---+  +--+---+
                        |ERRPRO|  |ERRPRO|
                        +------+  +------+
```

3-1219

104

```
                              +-----+
                              |DELDT|
                              +--+--+
                                 |
            +------------+----+----+------------+
            |            |         |            |
        +--+---+     +--+---+   +--+---+    +---+---+
        |COSQL3|     |ERRRPT|   |COEXEC|    |COBINDN|
        +-----2+     +-----2+   +-----2+    +------2+
```

105

```
                        +-------+
                        |ALTSMAP|
                        +---+---+
                            |
        +----------+----------++---------+----------+
        |          |           |          |          |
    +--+---+   +--+---+    +---+---+   +--+---+   +--+---+
    |(CONT)|   |COEXEC|    |COBINDN|   |FNDASM|   |(CONT)|
    +----77+   +-----2+    +------2+   +--+---+   +---136+
                                          |
                                          |
                                          |
                                      +--+---+
                                      |ERRPRO|
                                      +------+
```
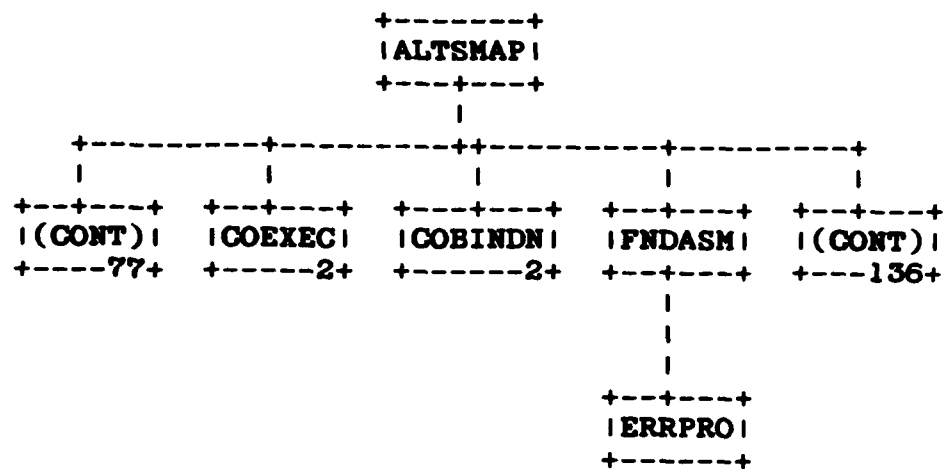
```
                        +-------+
                        |DRPSMAP|
                        +---+---+
                            |
        +-----------+-----------+-----------+-----------+
        |           |           |           |           |
    +--+---+    +---+---+    +---+---+    +--+---+    +--+---+
    |(CONT)|    |STRNCMP|    |SPRINTF|    |UERROR|    |(CONT)|
    +----78+    +-------+    +-------+    +-----3+    +--137+
```

```
                         +------+
                         |ADDMAP|
                         +--+---+
                            |
     +---------+---------+----+---+---------+---------+
     |         |         |        |         |         |
  +--+---+  +--+---+  +--+--+  +--+---+  +---+---+  +--+---+
  |(CONT)|  |CPFCOR|  |MAPRC|  |MAPADF|  |SPRINTF|  |(CONT)|
  +----79+  +---211+  +--138+  +---139+  +-------+  +---140+
```

```
                              +------+
                              |ADDMIG|
                              +--+---+
                                 |
        +----------+----------+----------+----------+
        |          |          |          |          |
     +--+---+   +--+---+   +--+---+   +--+---+   +--+---+
     |(CONT)|   |CKRNLST|  |VERAUC|   |GETNNUM|  |(CONT)|
     +----81+   +-------+  +----51+   +----126+  +---141+
```

```
                        +-------+
                        |BLOOPCK|
                        +--+--+-+
                           |
   +---------+---------+---+------+---------+--------+
   |         |         |          |         |        |
+--+---+  +--+---+  +---+---+  +---+---+  +--+--+  +--+---+
|COSQL3|  |ERRRPT|  |COFETCH|  |SPRINTF|  |UWARN|  |(CONT)|
+-----2+  +-----2+  +----44+  +-------+  +---7+   +--142+
```

```
                              +-------+
                              |TLOOPCK|
                              +---+---+
                                  |
       +----------+----------+----+-----+----------+--------+
       |          |          |          |          |        |
   +--+---+   +--+---+   +---+---+   +---+---+   +--+--+   +--+---+
   |COSQL3|   |ERRRPT|   |COFETCH|   |SPRINTF|   |UWARN|   |(CONT)|
   +-----2+   +-----2+   +----44+   +-------+   +---7+   +--143+
```

```
                    +-------+
                    |FRTOREL|
                    +---+---+
                        |
       +----------+-----+----+---------+
       |          |          |         |
  +---+---+   +--+--+   +---+---+   +--+---+
  |SELRCNM|   |UWARN|   |ADDPARM|   |ERRPRO|
  +---+---+   +----7+   +-----58+   +------+
      |
  +---+----+
  |        |
+--+--+ +--+---+
|UWARN| |ERRPRO|
+----7+ +------+
```

```
                        +------+
                        |BLKCL1|
                        +--+---+
                           |
                      +----+----+
                      |         |
                   +--+--+   +--+---+
                   |AKCROW|   |ERRPRO|
                   +--+--+   +------+
                      |
    +----------+---------+----+----------+-----------+
    |          |         |               |           |
+---+---+  +--+---+  +--+--+          +--+--+     +---+---+
|SPRINTF|  |PRINTF|  |ADDKG|          |ADDEC|     |ADDKCLS|
+-------+  +------+  +--+--+          +--+--+     +---+---+
                        |               |            |
                   +----+----+          |       +----+----+
                   |         |          |       |         |
               +--+--+  +---+---+   +--+--+  +--+--+   +---+---+
               |ALLOC|  |STRNCPY|   |ALLOC|  |ALLOC|   |STRNCPY|
               +-----+  +-------+   +-----+  +-----+   +-------+
```

```
                              +-------+
                              |GENENT1|
                              +---+---+
                                  |
        +----------+---------+------+----+----------+---------+
        |          |         |           |          |         |
    +---+---+   +--+--+   +--+--+    +--+---+    +---+---+   +--+---+
    |ADPARM1|   |CMBOA|   |CMBEKW|   |CMBALI|    |GENDESC|   |ERRPRO|
    +---+---+   +--144+   +---145+   +--+---+    +----146+   +------+
        |                               |
        |                   +-----------+---------+
        |                   |           |         |
        |               +--+---+    +--+---+   +--+---+
    +--+---+            |GENALI|    |VERALI|   |ERRPRO|
    |WRTLIN|            +---151+    +--+---+   +------+
    +----58+                          |
                                      |
                                      |
                                  +--+---+
                                  |ERRPRO|
                                  +------+
```
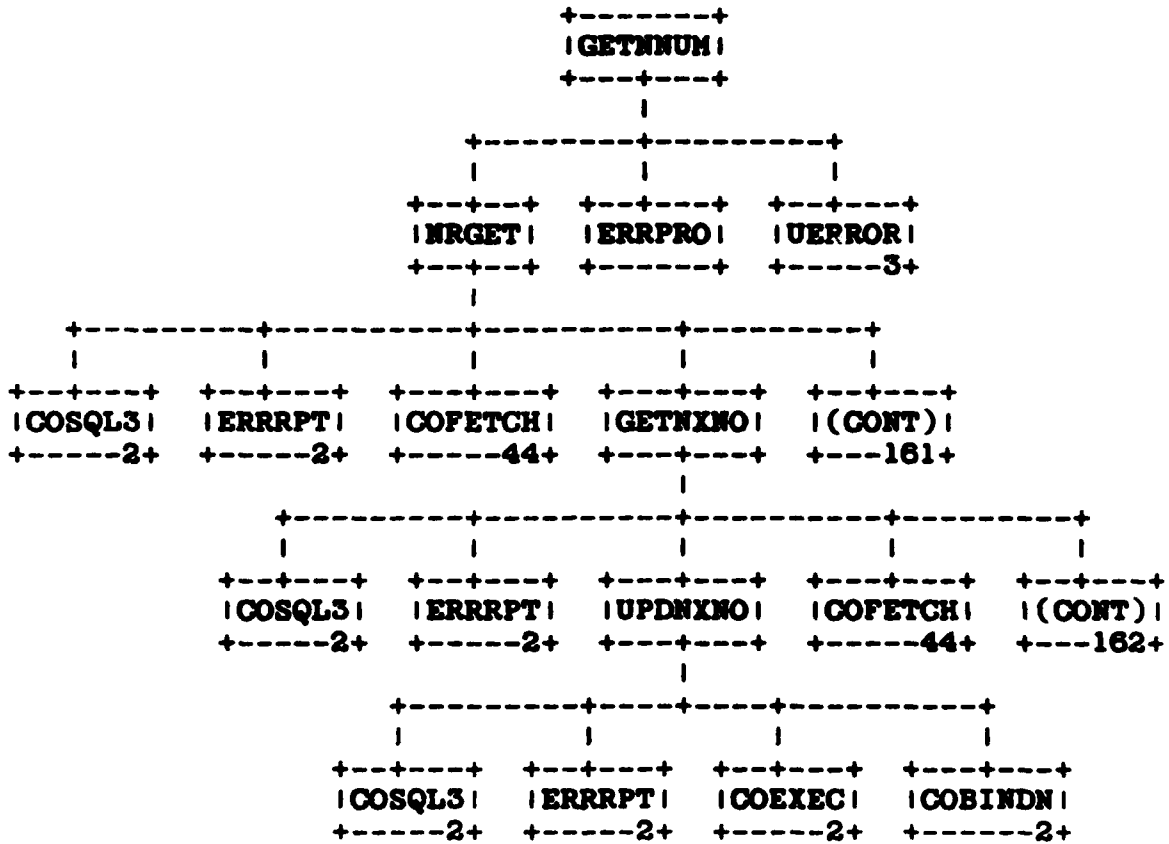
```
                          +------+
                          |CMBENT|
                          +--+---+
                             |
    +----------+----------+--+-----+--------+---------+
    |          |          |        |        |         |
+--+---+   +---+---+   +---+---+  +---+---+ +--+---+ +--+---+
|(CONT)|   |DEPFROM|   |GENALTE|  |INDFROM| |CLSFIL| |ERRPRO|
+----86+   +----147+   +----148+  +----149+ +--+---+ +------+
                                               |
                                               |
                                               |
                                          +--+---+
                                          |FCLOSE|
                                          +------+
```

115

```
                              +-------+
                              |ICOPATT|
                              +---+---+
                                  |
        +----------+----------++----------+----------+
        |          |           |          |          |
     +--+---+   +--+---+    +---+---+   +--+---+   +--+---+
     |BLDATT|   |UERROR|    |INSACNM|   |WRTALI|   |(CONT)|
     +---123+   +-----3+    +----124+   +--+---+   +---150+
                                           |
                              +---------+---------+
                              |         |         |
                           +--+---+  +--+---+  +--+---+
                           |INSACNM| |UERROR|  |ERRPRO|
                           +----124+ +-----3+  +------+
```

116

```
                              +-------+
                              |FCOPATT|
                              +---+---+
                                  |
        +---------+---------+-----+-----+---------+---------+
        |         |         |           |         |         |
    +--+---+  +--+---+  +--+---+   +--+---+   +--+---+   +--+---+
    |VERATT|  |UERROR|  |OPNFIL|   |ADDPARM|  |GENATT|   |(CONT)|
    +----13+  +-----3+  +------+   +-----58+  +--+---+   +---151+
                                                 |
                                        +----+----+
                                        |         |
                                    +--+---+   +--+---+
                                    |ADDPARM|  |GENAKW|
                                    +-----58+  +--+---+
                                                  |
                                         +----+----+
                                         |         |
                                     +--+---+   +--+---+
                                     |ADDPARM|  |ERRPRO|
                                     +-----58+  +------+
```
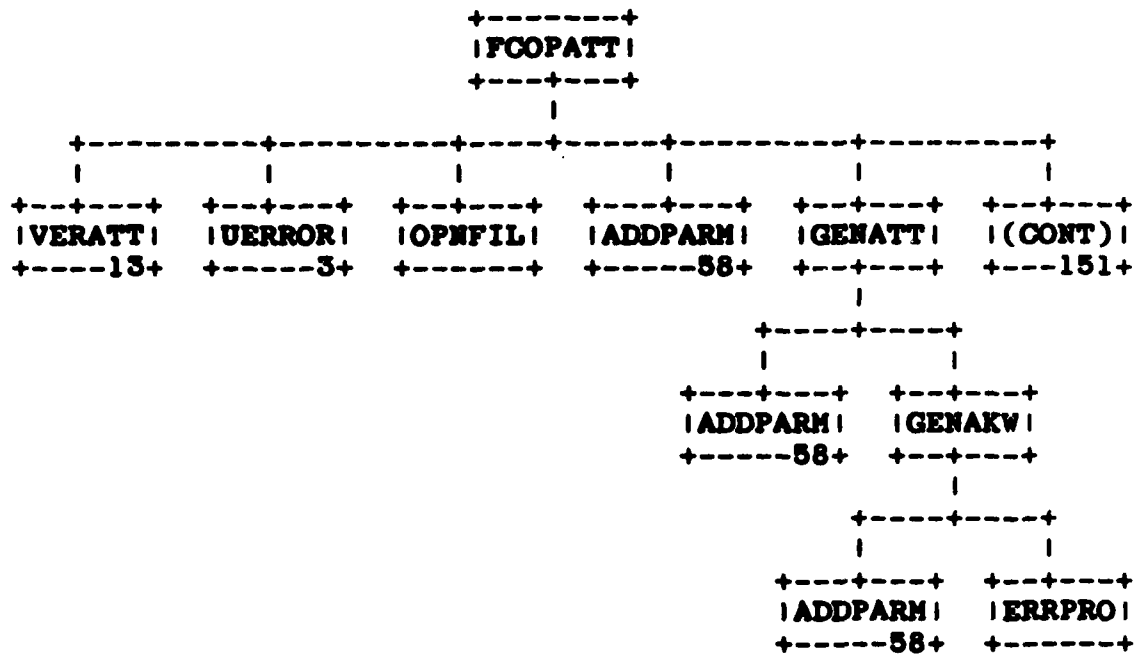
```
                        +------+
                        |VEROBJ|
                        +--+---+
                           |
      +-----------+--------++---------+---------+
      |           |         |         |         |
   +--+---+    +---+---+  +---+---+  +---+---+  +--+---+
   |(CONT)|    |VERUDTN|  |VERDFLD|  |STRNCMP|  |(CONT)|
   +----91+    +---+---+  +----211+  +-------+  +---152+
                   |
                   |
                   |
               +--+---+
               |ERRPRO|
               +------+
```

```
                          +-------+
                          |WRTDSC4|
                          +---+---+
                              |
         +------------+-------+----+-----------+
         |            |            |           |
     +--+---+     +--+---+     +--+---+     +---+---+
     |COSQL3|     |ERRRPT|     |COEXEC|     |COBINDN|
     +-----2+     +-----2+     +-----2+     +------2+
```
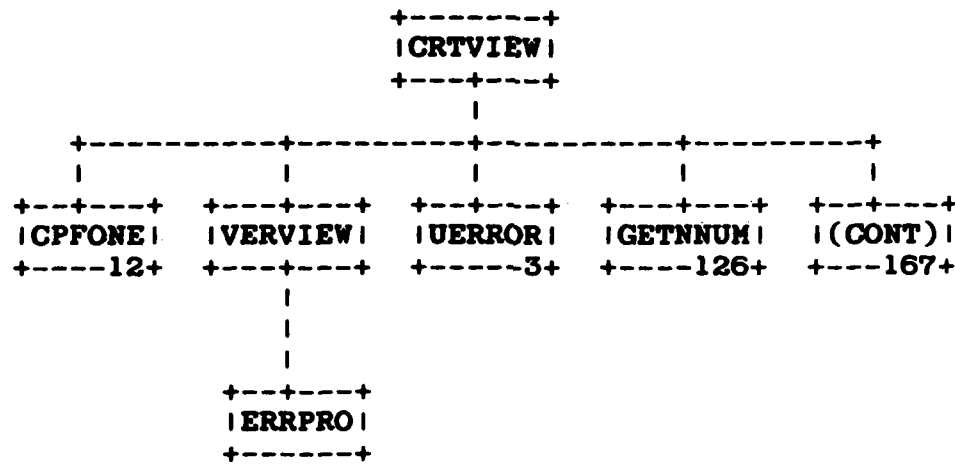
```
                          +-------+
                          |FCOPENT|
                          +---+---+
                              |
        +---------------------+---------+---------+
        |                     |         |         |
    +---+---+             +--+---+   +--+---+  +--+---+
    |CESTRUC|             |CERELS|   |UERROR|  |ERRPRO|
    +----153+             +--+---+   +-----3+  +------+
                             |
        +---------+---------++---------+---------+
        |         |         |          |         |
    +--+---+  +---+---+  +---+---+  +--+---+  +--+---+
    |OPNFIL|  |ADDPARM|  |GENENT1|  |UERROR|  |(CONT)|
    +------+  +-----58+  +----113+  +-----3+  +---154+
```
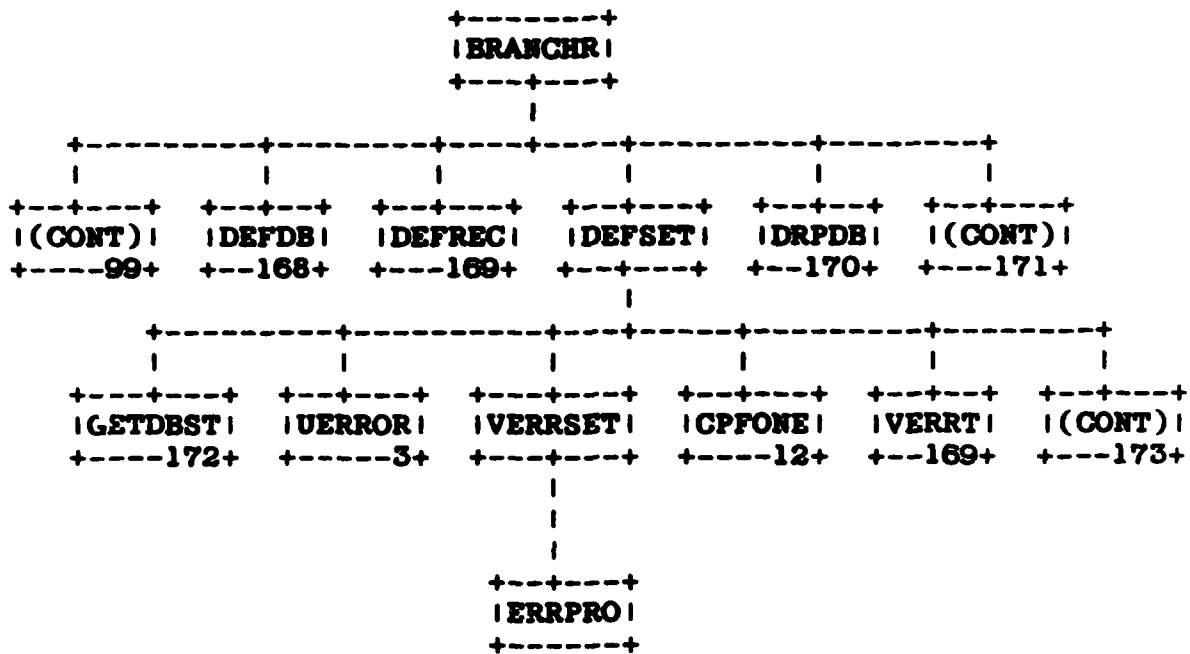
120

```
                          +-------+
                          |ICOPENT|
                          +---+---+
                              |
      +----------+-----------+---+------+----------+----------+
      |          |               |      |          |          |
  +---+---+  +---+---+     +---+---+  +---+---+  +--+----+  +--+---+
  |(CONT) |  |WRTECKW|     |WRTDESC|  |WRTENAM|  |COPYAC |  |ERRPRO|
  +----93+  +----155+     +----185+  +---+---+  +---156+  +------+
                                         |
                             +---------+---------+
                             |         |         |
                         +---+---+  +--+---+  +--+---+
                         |INSECNM|  |UERROR|  |ERRPRO|
                         +----125+  +-----3+  +------+
```

```
                            +------+
                            |CPYMOD|
                            +--+---+
                               |
    +---------+---------+----+-----+---------+---------+
    |         |         |         |         |         |
+--+---+  +--+---+  +---+---+  +---+---+  +--+---+  +--+---+
|(CONT)|  |ALLENT|  |BLKCLST|  |TOPNODE|  |ALLREL|  |CLSFIL|
+----94+  +---157+  +---+---+  +----158+  +---159+  +---114+
                        |
                   +----+----+
                   |         |
               +--+---+  +--+---+
               |AKCROW|  |ERRPRO|
               +---112+  +------+
```

```
                        +------+
                        |ALLATT|
                        +--+---+
                           |
        +---------+---------+---------+---------+
        |         |         |         |         |
     +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
     |(CONT)|  |GENATT|  |STRNCPY|  |GENDESC|  |(CONT)|
     +----94+  +---116+  +-------+  +----146+  +---160+
```

```
                    +------+
                    |BLDATT|
                    +--+---+
                       |
      +---------+----+-----+---------+
      |              |          |          |
 +--+---+      +--+---+    +---+---+    +--+--+
 |VERATT|      |UERROR|    |GETNNUM|    |INSAC|
 +----13+      +-----3+    +----126+    +--+--+
                                           |
                      +---------+----+----+----------+
                      |            |         |          |
                 +--+---+     +--+---+   +--+---+   +---+---+
                 |COSQL3|     |ERRRPT|   |COEXEC|   |COBINDN|
                 +-----2+     +-----2+   +-----2+   +------2+
```

```
                    +-------+
                    | INSACMM |
                    +---+---+
                        |
        +-----------+-----+-----+-----------+
        |           |           |           |
    +--+---+    +--+---+    +--+---+    +---+---+
    |COSQL3|    |ERRRPT|    |COEXEC|    |COBINDN|
    +-----2+    +-----2+    +-----2+    +-----2+
```

```
                              +------+
                              |CRTALI|
                              +--+---+
                                 |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +--+---+   +--+--+    +---+---+   +---+---+
    |(CONT)|   |CPFNXT|   |UWARN|    |INSECNM|   |INSACNM|
    +----96+   +----16+   +----7+    +---+---+   +----124+
                                         |
                        +----------+----+----+----------+
                        |          |         |          |
                    +--+---+   +--+---+   +--+---+   +---+---+
                    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                    +-----2+   +-----2+   +-----2+   +------2+
```

```
                              +-------+
                              |GETNNUM|
                              +--+--+
                                 |
                   +-----------+-----------+
                   |           |           |
               +--+--+     +--+---+     +--+---+
               |NRGET|     |ERRPRO|     |UERROR|
               +--+--+     +------+     +-----3+
                  |
     +---------+---------+---------+---------+
     |         |         |         |         |
 +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
 |COSQL3|  |ERRRPT|  |COFETCH|  |GETNXNO|  |(CONT)|
 +-----2+  +-----2+  +-----44+  +--+---+  +---161+
                                   |
                   +---------+---------+---------+
                   |         |         |         |         |
               +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
               |COSQL3|  |ERRRPT|  |UPDNXNO|  |COFETCH|  |(CONT)|
               +-----2+  +-----2+  +--+---+  +-----44+  +---162+
                                      |
                   +---------+----+----+---------+
                   |         |         |         |
               +--+---+  +--+---+  +--+---+  +---+---+
               |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
               +-----2+  +-----2+  +-----2+  +------2+
```

```
                        +------+
                        |INSDOM|
                        +--+---+
                           |
         +---------+----+----+---------+
         |         |         |         |
      +--+---+  +--+---+  +--+---+  +---+---+
      |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
      +-----2+  +-----2+  +-----2+  +------2+
```

```
                              +-----+
                              |INSEC|
                              +--+--+
                                 |
            +-----------+------+----+-----+-----------+
            |           |           |                 |
        +--+---+    +--+---+    +--+---+          +---+---+
        |COSQL3|    |ERRRPT|    |COEXEC|          |COBINDN|
        +-----2+    +-----2+    +-----2+          +------2+
```

```
                          +------+
                          |CRTENT|
                          +--+---+
                             |
   +-----------+----------++----------+----------+
   |           |          |           |          |
+--+---+   +---+---+   +--+---+    +--+--+    +--+--+
|(CONT)|   |INSECNM|   |ADDATT|    |ADDKC|    |ADDKW|
+----98+   +----125+   +----42+    +---43+    +---18+
```

```
                              +------+
                              |CRTMAP|
                              +--+---+
                                 |
       +---------+---------+---+-+---+---------+---------+
       |         |         |         |         |         |
    +--+---+  +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
    |CPFONE|  |VERENT|  |SPRINTF|  |UERROR|  |ADDMAP|  |(CONT)|
    +----12+  +----14+  +-------+  +-----3+  +----79+  +---163+
```

131

```
                                +------+
                                |CRTMOD|
                                +--+---+
                                   |
     +----------+----------+----+-----+---------+---------+
     |          |          |          |         |         |
 +--+---+   +--+---+   +--+---+   +---+---+  +--+---+  +--+--+
 |CPFONE|   |VERMOD|   |UERROR|   |GETNNUM|  |INSMOD|  |(CONT)|
 +----12+   +----21+   +-----3+   +----126+  +---164+  +---165+
```

```
                          +------+
                          |CRTREL|
                          +--+---+
                             |
      +----------+----------+----+----+----------+----------+
      |          |          |         |          |          |
   +--+---+   +--+---+    +--+---+   +--+---+   +---+---+   +--+---+
   |UERROR|   |CPFONE|    |CPFNXT|   |VERREL|   |GETNNUM|   |(CONT)|
   +-----3+   +----12+    +----16+   +----80+   +----126+  +---166+
```

133

```
                              +-------+
                              |CRTVIEW|
                              +---+---+
                                  |
         +----------+----------+----------+----------+
         |          |          |          |          |
      +--+---+   +---+---+   +--+---+   +---+---+   +--+---+
      |CPFONE|   |VERVIEW|   |UERROR|   |GETNNUM|   |(CONT)|
      +----12+   +---+---+   +-----3+   +----126+   +---167+
                     |
                     |
                     |
                  +--+---+
                  |ERRPRO|
                  +------+
```

```
                          +-------+
                          |BRANCHR|
                          +---+---+
                              |
      +---------+---------+---+---+---------+---------+
      |         |         |       |         |         |
   +--+---+  +--+--+  +--+---+  +--+---+  +--+--+  +--+---+
   |(CONT)|  |DEFDB|  |DEFREC|  |DEFSET|  |DRPDB|  |(CONT)|
   +----99+  +--168+  +---169+  +--+---+  +--170+  +---171+
                                   |
      +---------+---------+----+---+---------+---------+
      |         |         |        |         |         |
   +--+---+  +--+---+  +--+---+  +--+---+  +--+--+  +--+---+
   |GETDBST|  |UERROR|  |VERRSET|  |CPFONE|  |VERRT|  |(CONT)|
   +----172+  +-----3+  +---+---+  +----12+  +--169+  +---173+
                            |
                            |
                            |
                        +--+---+
                        |ERRPRO|
                        +------+
```

```
                           +-----+
                           |INSDT|
                           +--+--+
                              |
         +----------+--------++---------+---------+
         |          |         |         |         |
     +---+---+  +---+---+  +--+---+  +--+---+  +--+---+
     |GETNNUM|  |SPRINTF|  |UERROR|  |COSQL3|  |(CONT)|
     +----126+  +-------+  +-----3+  +-----2+  +---174+
```

```
                              +-------+
                              |ALTSMAP|
                              +---+---+
                                  |
            +----------+---------++---------+---------+
            |          |          |         |         |
        +--+---+   +--+---+   +--+---+   +---+---+   +--+--+
        |(CONT)|   |CHKAUCV|  |TOLOWER|  |STRNCMP|   |VERDB|
        +---105+   +--+---+   +-------+   +-------+   +--168+
                      |
                      |
                      |
                  +--+---+
                  |ERRPRO|
                  +------+
```
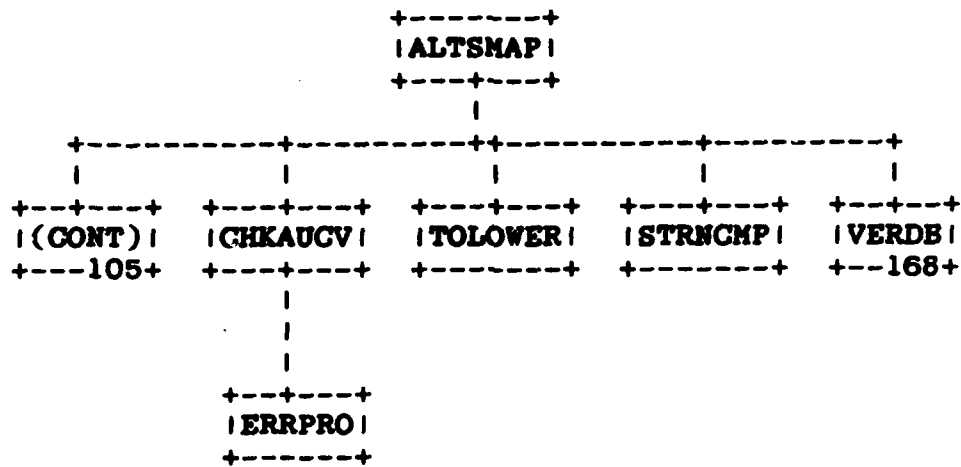
```
                        +-------+
                        |DRPSMAP|
                        +---+---+
                            |
        +------------+------+-----+----------+
        |            |            |          |
    +--+---+    +---+---+    +---+---+    +---+---+
    |(CONT)|    |DELIRCS|    |DELIASM|    |DELIPDF|
    +---106+    +----175+    +----176+    +---+---+
                                             |
                        +----------+-----+----+----------+
                        |          |          |          |
                    +--+---+   +--+---+   +--+---+   +---+---+
                    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                    +-----2+   +-----2+   +-----2+   +------2+
```

```
                                    +-----+
                                    |MAPRC|
                                    +--+--+
                                       |
        +----------+----------+---+------+----------+---------+
        |          |          |          |          |         |
    +---+---+  +---+---+   +---+---+  +--+---+   +---+---+  +--+---+
    |FND1MEM|  |VERRCMP|   |SPRINTF|  |UERROR|   |INSRCRS|  |FNDASA|
    +----177+  +---+---+   +-------+  +-----3+   +----178+  +--+---+
                   |                                            |
                   |                                            |
                   |                                            |
               +--+---+                                     +--+---+
               |ERRPRO|                                     |ERRPRO|
               +------+                                     +------+
```
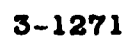
```
                          +------+
                          |MAPADF|
                          +--+---+
                             |
        +----------+--------++---------+----------+
        |          |         |         |          |
    +--+---+   +---+---+  +--+---+  +--+---+   +--+---+
    |VERASM|   |SPRINTF|  |UERROR|  |INSPDF|   |(CONT)|
    +---344+   +-------+  +-----3+  +--+---+   +---179+
                                       |
                          +----------+----+----+----------+
                          |          |         |          |
                      +--+---+   +--+---+  +--+---+   +---+---+
                      |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
                      +-----2+   +-----2+  +-----2+   +------2+
```

140

```
                              +------+
                              |ADDMAP|
                              +--+---+
                                 |
      +----------+----------+----------+----------+
      |          |          |          |          |
  +--+---+   +--+---+   +---+---+  +---+---+   +--+--+
  |(CONT)|   |UERROR|   |MAPASET|  |TOUPPER|   |VERDB|
  +---107+   +-----3+   +---+---+  +-------+   +--168+
                            |
      +----------+--------++--------+----------+
      |          |         |         |         |
  +---+---+  +---+---+  +--+---+  +--+---+  +--+---+
  |PDFSRCH|  |SPRINTF|  |UERROR|  |VOMAPS|  |(CONT)|
  +----344+  +-------+  +-----3+  +--+---+  +---180+
                                     |
                                +----+----+
                                |         |
                            +--+---+  +--+---+
                            |UERROR|  |ERRPRO|
                            +-----3+  +------+
```
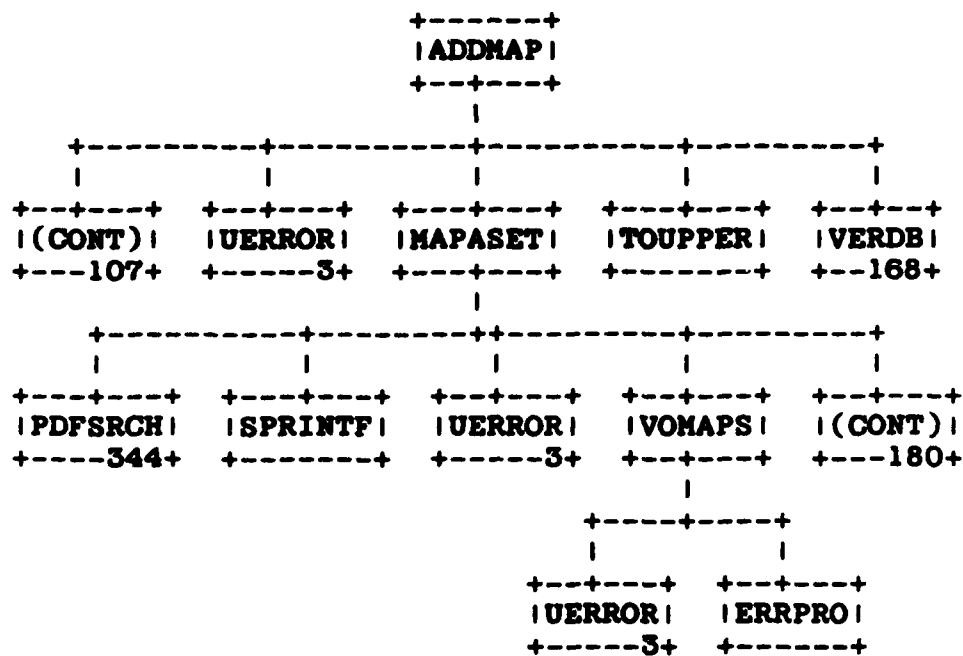
```
                              +------+
                              |ADDMIG|
                              +--+---+
                                 |
        +---------+---------++---------+---------+
        |         |          |         |         |
    +--+---+  +--+---+  +---+---+  +--+---+  +--+---+
    |(CONT)|  |INSAUC|  |INSIAUC|  |INSCRC|  |ERRPRO|
    +---108+  +---181+  +----182+  +--+---+  +------+
                                      |
                     +---------+----+---+----------+
                     |         |        |          |
                 +--+---+  +--+---+  +--+---+  +---+---+
                 |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
                 +-----2+  +-----2+  +-----2+  +------2+
```

```
                           +--------+
                           |BLOOPCK |
                           +---+---+
                               |
             +----------+------+-----+----------+
             |          |            |          |
          +--+---+   +--+---+   +---+---+   +---+---+
          |(CONT)|   |COEXEC|   |CODFINN|   |COBINDN|
          +---109+   +-----2+   +----102+   +------2+
```

```
                    +-------+
                    |TLOOPCK|
                    +---+---+
                        |
        +----------+-----+----+-----------+
        |          |          |           |
     +--+---+   +--+---+   +---+---+   +---+---+
     |(CONT)|   |COEXEC|   |CODFINN|   |COBINDN|
     +---110+   +-----2+   +----102+   +------2+
```

3-1259

```
                              +-----+
                              |CMBOA|
                              +--+--+
                                 |
       +---------+---------+----+----+---------+---------+
       |         |         |         |         |         |
    +--+---+  +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
    |VERATT|  |GENATT|  |GENDESC|  |CMBACAL|  |ADPARM1|  |ERRPRO|
    +----13+  +---116+  +----146+  +---+---+  +----113+  +------+
                                       |
                              +--------+---------+
                              |        |         |
                           +--+---+  +--+---+  +--+---+
                           |VERATT|  |GENALI|  |ERRPRO|
                           +----13+  +---151+  +------+
```

145

```
                        +------+
                        |CMBEKW|
                        +--+---+
                           |
             +-----------++---------+
             |            |          |
       +--+---+     +---+---+    +--+---+
       |VERKWE|     |ADPARM1|    |ERRPRO|
       +--+---+     +----113+    +------+
          |
          |
          |
       +--+---+
       |ERRPRO|
       +------+
```

```
                        +--------+
                        |GENDESC |
                        +---+---+
                            |
             +----------++----------+
             |            |           |
         +--+---+    +---+---+    +--+---+
         |ADDTXT |   |ADDPARM |   |ERRPRO |
         +--+---+    +-----58+    +------+
             |
             |
             |
         +--+---+
         |WRTLIN |
         +----58+
```
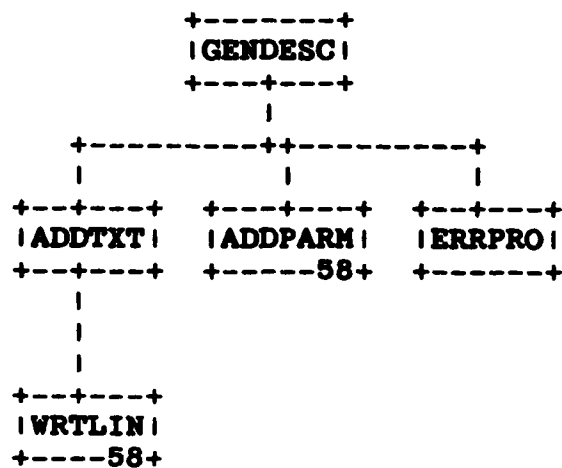
```
                              +-------+
                              |DEPFROM|
                              +---+---+
                                  |
        +----------+----------++---------+---------+
        |          |          |          |         |
    +---+---+   +--+--+    +--+---+   +---+--+   +--+---+
    |SELECNM|   |VERRC|    |VERENT|   |VERRCNM|  |(CONT)|
    +---+---+   +---80+    +----14+   +---+---+  +--183+
        |                                 |
        |                      +--------++--------+
        |                      |         |        |
    +--+---+               +--+---+   +--+--+  +--+---+
    |ERRPRO|               |VERENT|   |VERRC|  |ERRPRO|
    +------+               +----14+   +---80+  +------+
```

```
                    +-------+
                    |GENALTE|
                    +---+---+
                        |
          +-------------+-----------+
          |             |           |
      +--+---+      +---+---+    +---+---+
      |NEXTKC|      |ADDPARM|    |NEXTKCM|
      +--+---+      +-----58+    +---+---+
         |                           |
         |                           |
         |                           |
      +--+---+                    +---+---+
      |STRNCPY|                   |STRNCPY|
      +-------+                   +-------+
```
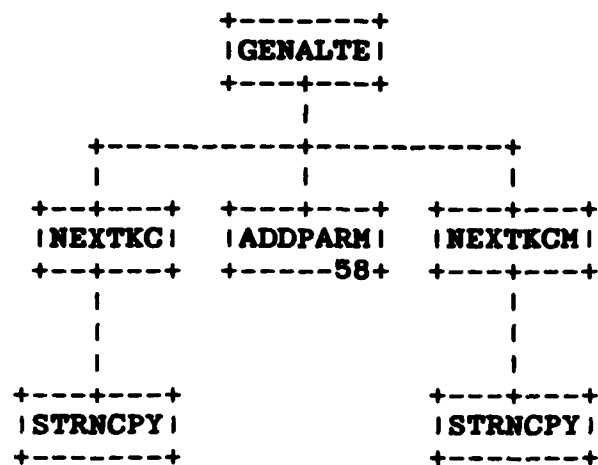
```
                        +-------+
                        | INDFROM |
                        +---+---+
                            |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +---+---+  +--+--+    +--+--+    +---+---+   +--+---+
    |SELECNM|  |VERRC|    |VERENT|   |VERRCNM|   |(CONT)|
    +----147+  +---80+    +----14+   +----147+   +---184+
```
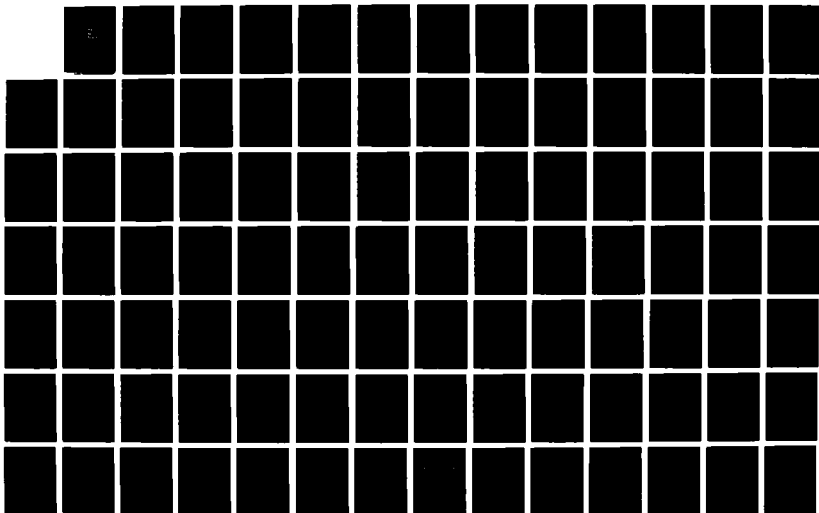
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

150

```
                        +--------+
                        | ICOPATT|
                        +---+----+
                            |
          +----------+------+-----+----------+
          |                 |           |          |
      +--+---+       +---+---+     +---+---+    +--+---+
      |(CONT)|       |WRTACKW|     |WRTDESC|    |ERRPRO|
      +---115+       +---+---+     +----185+    +------+
                         |
           +----------+-------+----------+
           |          |           |
      +---+---+   +--+---+     +--+---+
      |INSKWAC|   |UERROR|     |ERRPRO|
      +-----46+   +-----3+     +------+
```
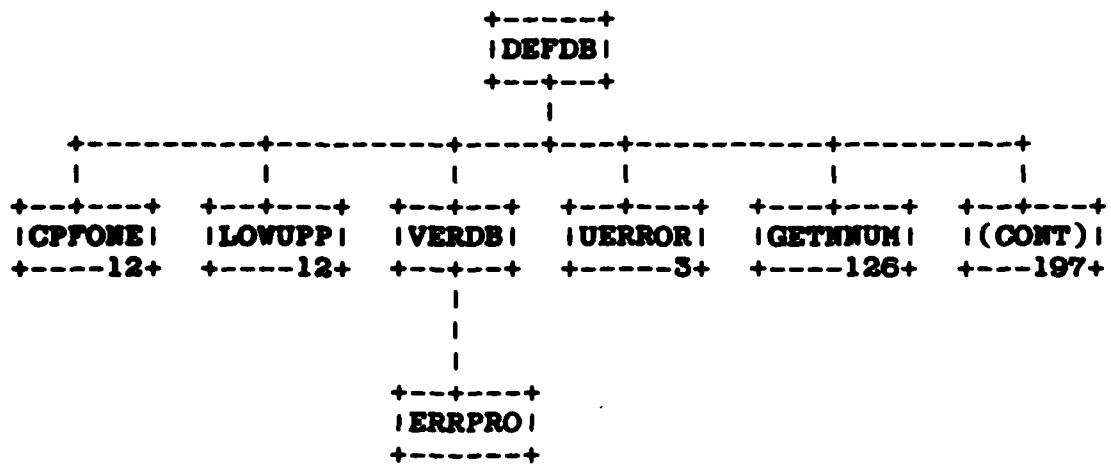
```
                            +-------+
                            |FCOPATT|
                            +---+---+
                                |
        +-----------+---------+-+---------+---------+
        |           |           |           |           |
    +--+---+    +---+---+    +--+---+    +--+---+    +--+---+
    |(CONT)|    |GENDESC|    |GENALI|    |CLSFIL|    |ERRPRO|
    +---116+    +----146+    +--+---+    +---114+    +------+
                                |
                                |
                                |
                            +---+---+
                            |ADDPARM|
                            +-----58+
```
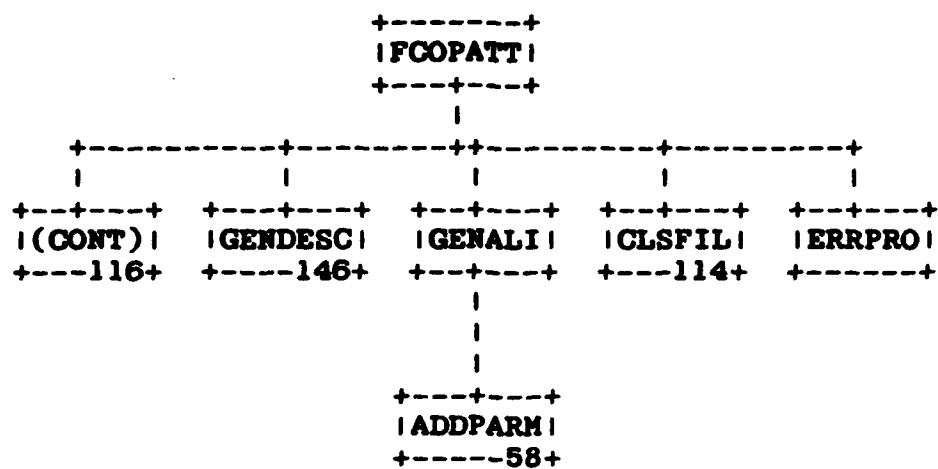
152

```
                              +------+
                              |VEROBJ|
                              +--+---+
                                 |
      +----------+----------+----+----+----------+----------+
      |          |          |         |          |          |
  +--+---+   +--+---+    +--+---+  +--+--+   +---+---+   +--+---+
  |(CONT)|   |VERATT|    |VERENT|  |VERKW|   |VERVIEW|   |(CONT)|
  +---117+   +----13+    +----14+  +--284+   +----133+   +---186+
```

```
                        +-------+
                        |CESTRUC|
                        +---+---+
                            |
        +------------+----------++---------+----------+
        |            |          |          |          |
    +--+---+    +---+---+   +---+---+   +--+---+   +--+---+
    |OPNFIL|    |ADDPARM|   |GENENT1|   |BLKCL1|   |(CONT)|
    +------+    +-----58+   +----113+   +---112+   +---187+
```

```
                          +------+
                          |CERELS|
                          +--+---+
                             |
      +----------+----------+----------+----------+
      |          |          |          |          |
   +--+---+   +--+---+   +---+---+   +---+---+   +--+---+
   |(CONT)|   |BLKCL1|   |DEPFROM|   |GENALTE|   |(CONT)|
   +---119+   +---112+   +----147+   +----148+   +---188+
```

```
                    +-------+
                    |WRTECKW|
                    +---+---+
                        |
        +---------------+---------+
        |               |         |
   +---+---+        +---+---+   +--+---+
   |INSKVEC|        |UERROR |   |ERRPRO|
   +-----47+        +-----3+    +------+
```

```
                              +------+
                              |COPYAC|
                              +--+---+
                                 |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +---+---+ +--+---+ +--+---+ +---+---+ +--+---+
    |BLDATT1| |UERROR| |ADDOAC| |KEYLOOK| |ERRPRO|
    +----189+ +-----3+ +----42+ +---+---+ +------+
                                    |
            +---------+---------++--------+---------+
            |         |         |         |         |
        +---+---+ +--+---+ +--+--+ +--+---+ +--+---+
        |GETNNUM| |UERROR| |INSKC| |INSKCM| |ERRPRO|
        +----126+ +-----3+ +---71+ +---101+ +------+
```

3-1272

```
                              +------+
                              |ALLENT|
                              +--+---+
                                 |
        +---------+---------+---------+---------+
        |         |         |         |         |
     +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
     |COSQL3|  |ERRRPT|  |COFETCH|  |STRNCMP|  |(CONT)|
     +-----2+  +-----2+  +-----44+  +-------+  +---190+
```

158

```
                              +-------+
                              |TOPNODE|
                              +---+---+
                                  |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
    |COSQL3|  |ERRRPT|  |COFETCH|  |GETECMM|  |(CONT)|
    +-----2+  +-----2+  +-----44+  +---+---+  +---191+
                                       |
                                       |
                                       |
                                   +---+---+
                                   |STRNCPY|
                                   +-------+
```

```
                              +------+
                              |ALLREL|
                              +--+---+
                                 |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +--+--+    +--+---+   +---+---+   +--+---+
    |BLRCKC|   |COSQL3|   |ERRRPT|   |COFETCH|  |(CONT)|
    +---192+   +-----2+   +-----2+   +-----44+  +---193+
```
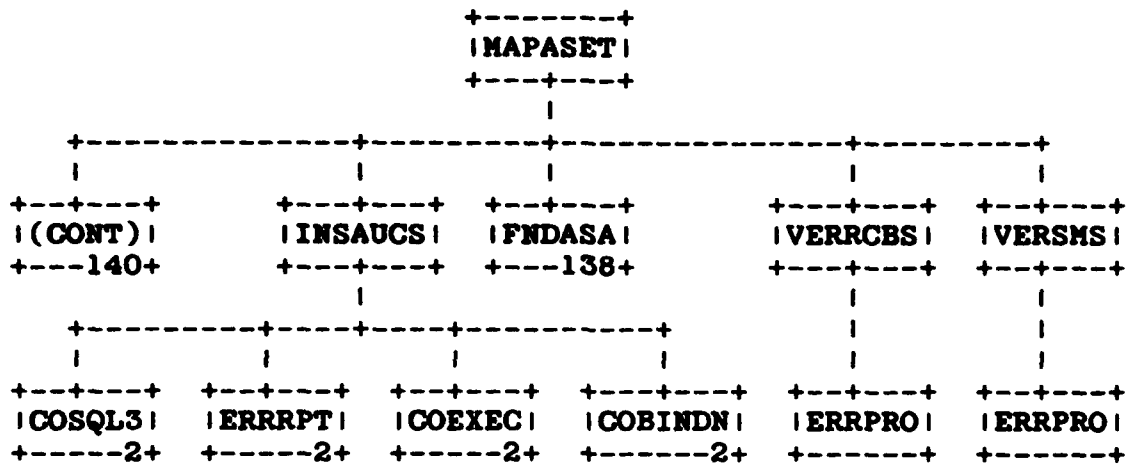
```
                              +------+
                              |ALLATT|
                              +--+---+
                                 |
          +---------+---------++---------+----------+
          |         |         |          |          |
       +--+---+  +--+---+  +--+---+   +---+---+   +---+---+
       |(CONT)|  |GENALI|  |COEXEC|   |COBINDN|   |CODFINN|
       +---122+  +---151+  +-----2+   +------2+   +----102+
```

```
                              +-----+
                              |NRGET|
                              +--+--+
                                 |
        +--------------+-------+-+----------+------------+
        |              |       |            |            |
     +--+---+      +---+---+  +--+---+   +---+---+    +---+---+
     |(CONT)|      |DELREUS|  |COEXEC|   |COBINDN|    |CODFINN|
     +---126+      +---+---+  +-----2+   +------2+    +----102+
                       |
        +----------+-------+----+----------+
        |          |       |               |
     +--+---+  +---+---+  +--+---+     +---+---+
     |COSQL3|  |ERRRPT |  |COEXEC|     |COBINDN|
     +-----2+  +-----2+  +-----2+      +------2+
```

162

```
                        +-------+
                        |GETNXNO|
                        +---+---+
                            |
        +----------+------+----+----------+
        |          |           |          |
    +--+---+    +--+---+    +---+---+    +---+---+
    |(CONT)|    |COEXEC|    |COBINDN|   |CODFINN|
    +---126+    +-----2+    +------2+   +----102+
```

163

```
                    +------+
                    |CRTMAP|
                    +--+---+
                       |
     +----------+----+----+----------+
     |          |         |          |
 +--+---+   +--+---+   +--+---+   +--+---+
 |(CONT)|   |CPFNXT|   |VERREL|   |VERAUC|
 +---130+   +----16+   +----80+   +----51+
```

```
                          +------+
                          |INSMOD|
                          +--+---+
                             |
          +------------+-----+----+----------+
          |            |          |          |
      +--+---+     +--+---+   +--+---+   +---+---+
      |COSQL3|     |ERRRPT|   |COEXEC|   |COBINDN|
      +-----2+     +-----2+   +-----2+   +------2+
```

```
                    +------+
                    |CRTMOD|
                    +--+---+
                       |
             +--------++--------+
             |         |         |
         +--+---+  +--+--+   +--+---+
         |(CONT)|  |UWARN|   |ERRPRO|
         +---131+  +----7+   +------+
```

```
                         +------+
                         |CRTREL|
                         +--+---+
                            |
       +--------------+---------++--------+---------+
       |              |         |         |         |
    +--+---+      +--+---+   +--+---+   +--+---+  +--+--+
    |(CONT)|      |CHKCARD|  |INSRC |   |ADDMIG|  |ADDKW|
    +---132+      +----194+  +--+--++   +----61+  +---18+
                                |
              +----------+-----+----+----+----------+
              |          |          |          |
          +--+---+   +--+---+   +--+---+   +---+---+
          |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
          +-----2+   +-----2+   +-----2+   +------2+
```

```
                        +-------+
                        |CRTVIEW|
                        +---+---+
                            |
       +---------+-----+----+----+----------+
       |         |          |          |
    +--+---+  +--+---+   +---+---+   +---+---+
    |(CONT)|  |INSSEC|   |BLVVLST|   |REMVIEW|
    +---133+  +--195+    +---+---+   +----196+
                             |
          +---------+-----+----+----+---------+
          |         |          |          |
       +--+---+  +--+---+   +--+---+   +--+---+
       |CPFONE|  |UERROR|   |CPFNXT|   |CPFCOR|
       +----12+  +-----3+   +----16+   +---211+
```

```
                              +-----+
                              |DEFDB|
                              +--+--+
                                 |
        +----------+----------+----+---+----------+----------+
        |          |          |        |          |          |
     +--+---+   +--+---+   +--+---+  +--+---+   +---+---+   +--+---+
     |CPFONE|   |LOWUPP|   |VERDB |  |UERROR|   |GETNNUM|   |(CONT)|
     +----12+   +----12+   +--+--++  +-----3+   +----126+   +---197+
                              |
                              |
                              |
                           +--+---+
                           |ERRPRO|
                           +------+
```

169

```
                              +------+
                              |DEFREC|
                              +--+---+
                                 |
         +---------+---------+----+----+---------+---------+
         |         |         |         |         |         |
     +--+---+  +--+---+  +--+--+  +---+---+  +---+---+  +--+---+
     |GETRDH|  |UERROR|  |VERRT|  |INSRTYP|  |DEFAREA|  |(CONT)|
     +---198+  +-----3+  +--+--+  +----199+  +----200+  +---201+
                            |
                            |
                         +--+---+
                         |ERRPRO|
                         +------+
```
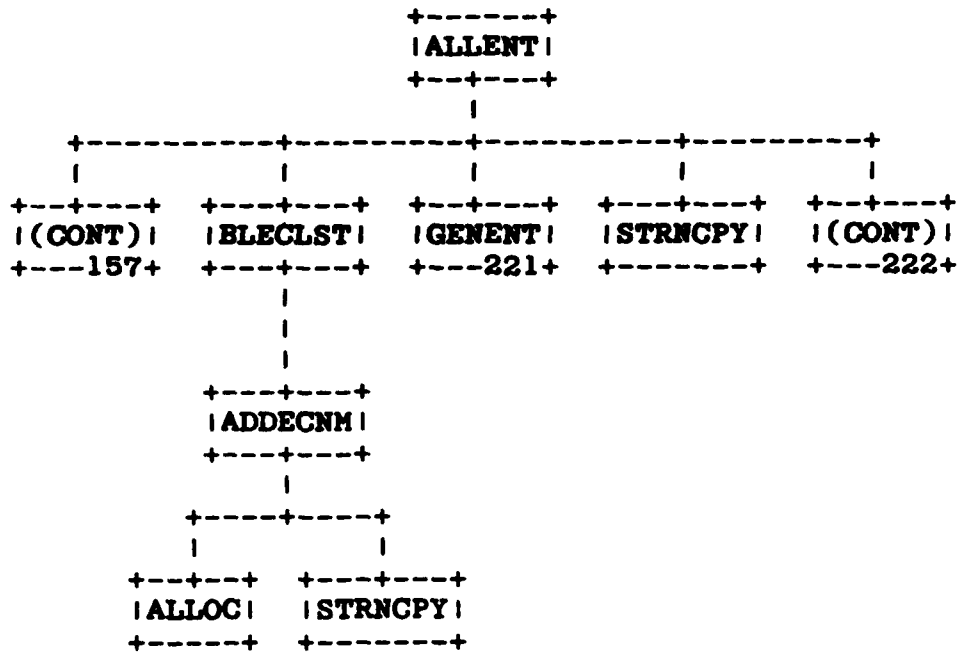
```
                        +-----+
                        |DRPDB|
                        +--+--+
                           |
      +---------+---------++---------+---------+
      |         |          |         |         |
   +--+---+  +--+---+   +---+---+  +--+---+  +--+---+
   |CPFONE|  |LOWUPP|   |VERDBAS|  |UERROR|  |(CONT)|
   +----12+  +----12+   +---+---+  +-----3+  +---202+
                            |
                            |
                            |
                        +--+---+
                        |ERRPRO|
                        +------+
```
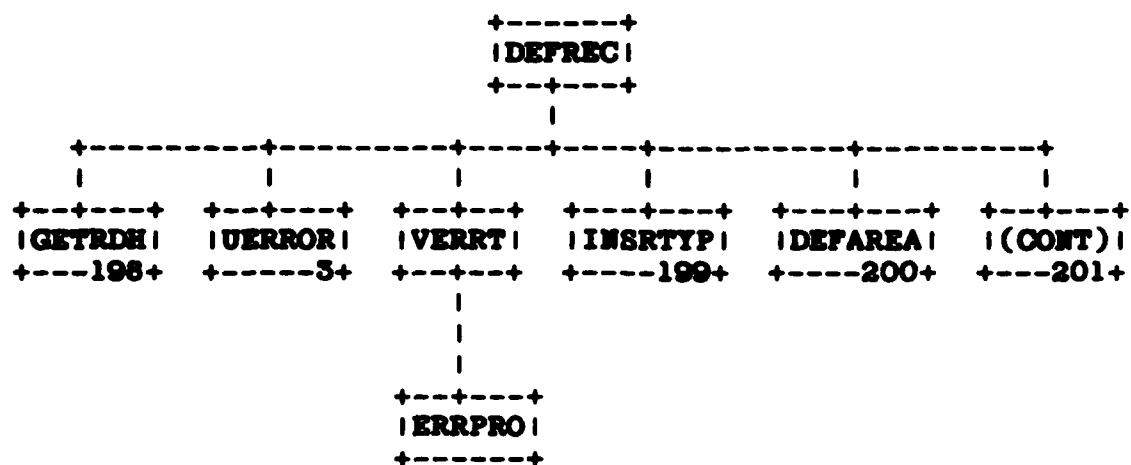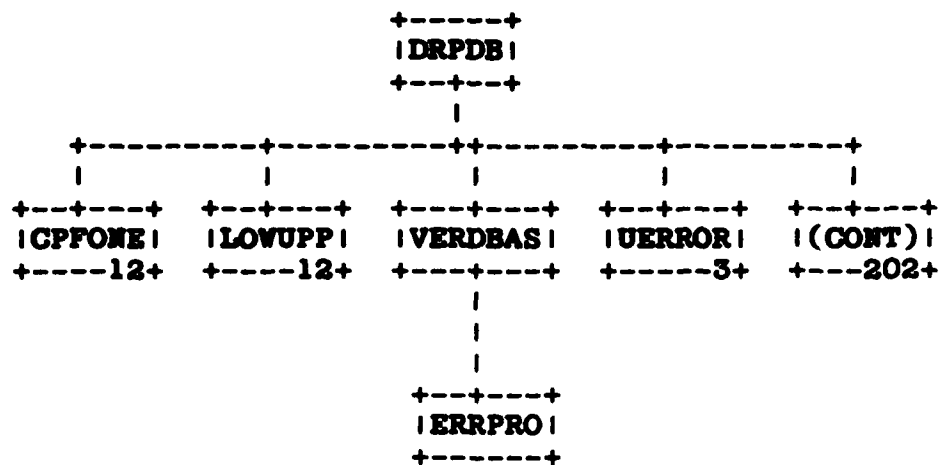
```
                      +-------+
                      |BRANCHR|
                      +---+---+
                          |
  +----------+----------+--+-+----+----------+----------+
  |          |          |       |          |          |
+-+-+---+  +-+-+---+  +-+-+---+  +-+-+---+  +-+-+---+  +-+-+---+
|(CONT) |  |DRPFLD |  |DRPREC |  |DRPSET |  |DESCRB |  |(CONT) |
+---134+  +---203+  +-+-+---+  +---204+  +---205+  +---206+
                        |
  +----------+----------+----------+----------+
  |          |          |          |          |
+-+-+---+  +-+-+---+  +--+-+---+  +-+-+---+  +-+-+---+
|GETDRT |  |UERROR |  |DELRTY2|  |ADDRNUM|  |(CONT) |
+---207+  +-----3+  +----208+  +----355+  +---209+
```

```
                          +--------+
                          |GETDBST |
                          +---+---+
                              |
      +----------+---------+----------+---------+
      |          |         |          |         |
  +--+---+   +---+---+  +--+---+   +---+---+  +--+---+
  |CPFONE|   |VERDBAS|  |UERROR|   |CHGLOBL|  |(CONT)|
  +----12+   +----170+  +-----3+   +-------+  +---210+
```

```
                            +------+
                            |DEFSET|
                            +--+---+
                               |
        +----------+-----------+-----------+----------+
        |          |           |           |          |
    +--+---+   +--+---+   +--+---+    +---+---+   +--+---+
    |(CONT)|   |CPFNXT|   |INSSTM|    |GETNNUM|   |(CONT)|
    +---134+   +----16+   +--+---+    +----126+   +---211+
                             |
            +---------+----+----+----------+
            |         |         |          |
        +--+---+  +--+---+  +--+---+   +---+---+
        |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
        +-----2+  +-----2+  +-----2+   +------2+
```
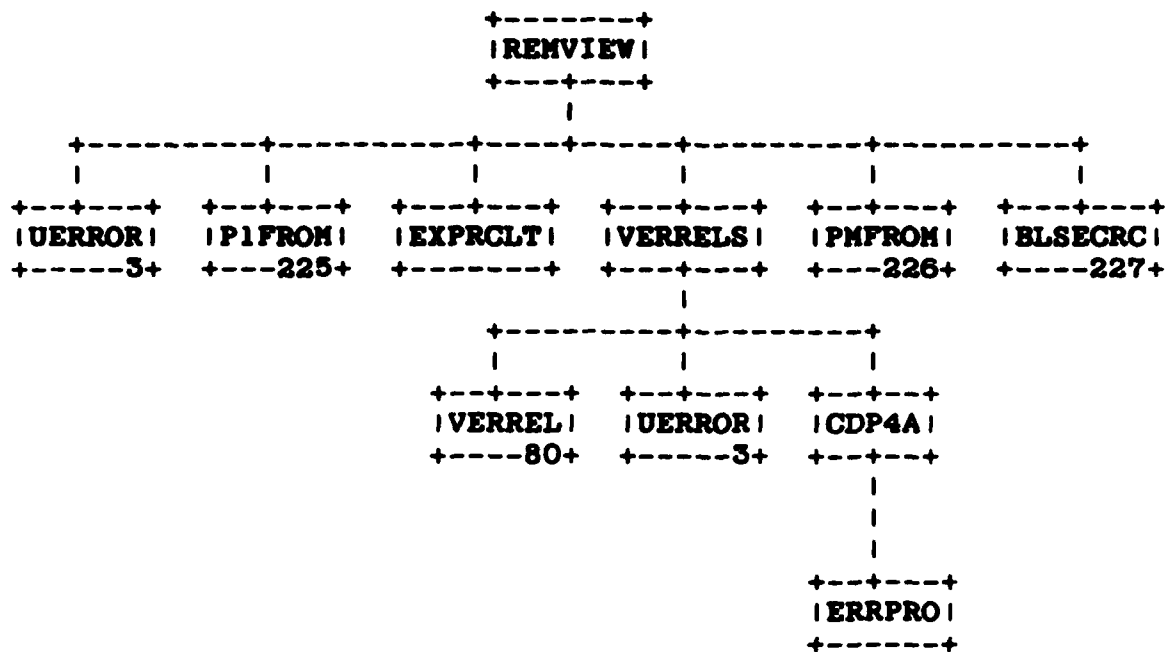
174

```
                        +-----+
                        |INSDT|
                        +--+--+
                           |
        +----------+-----+----+----------+
        |                |            |            |
    +--+---+        +--+---+      +--+---+      +---+---+
    |(CONT)|        |ERRRPT|      |COEXEC|      |COBINDN|
    +---135+        +-----2+      +-----2+      +------2+
```

```
                    +-------+
                    |DELIRCS|
                    +---+---+
                        |
        +----------+----+----+----------+
        |          |         |          |
    +--+---+   +--+---+  +--+---+  +---+---+
    |COSQL3|   |ERRRPT|  |COEXEC|  |COBINDN|
    +-----2+   +-----2+  +-----2+  +------2+
```
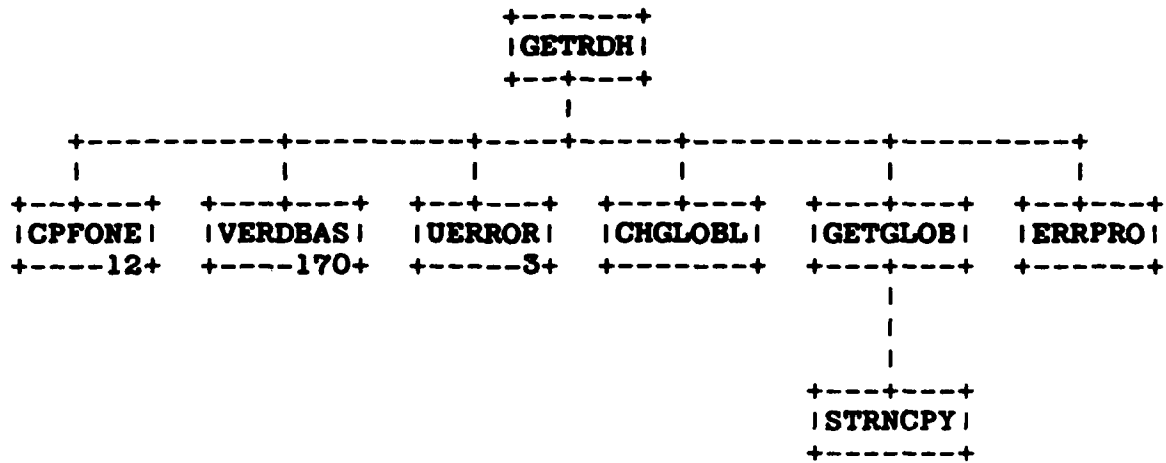
```
                        +-------+
                        |DELIASM|
                        +---+---+
                            |
        +-----------+----+----+----------+
        |           |         |          |
    +--+---+    +--+---+   +--+---+   +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+    +-----2+   +-----2+   +------2+
```

```
                +--------+
                |FND1MEM |
                +---+---+
                    |
                +----+----+
                |         |
            +--+---+   +--+---+
            |UERROR|   |ERRPRO|
            +-----3+   +------+
```

```
                           +-------+
                           |INSRCRS|
                           +---+---+
                               |
         +-----------+-----+---+----+-----------+
         |           |          |               |
    +--+---+     +--+---+    +--+---+      +---+---+
    |COSQL3|     |ERRRPT|    |COEXEC|      |COBINDN|
    +-----2+     +-----2+    +-----2+      +------2+
```
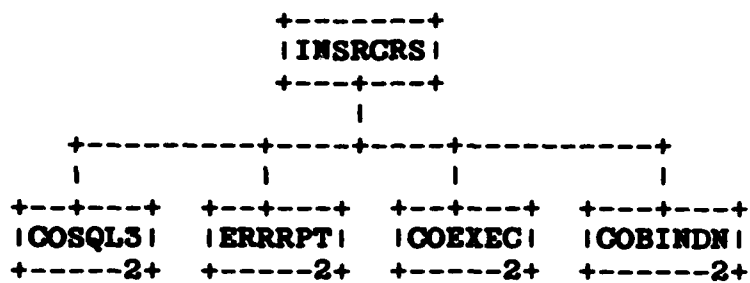
```
                        +------+
                        |MAPADF|
                        +--+---+
                           |
      +-----------+--------++---------+---------+
      |           |         |         |         |
  +--+---+    +---+---+  +--+---+  +--+---+  +--+---+
  |(CONT)|    |PDFSRCH|  |VERDTD|  |VERSDT|  |(CONT)|
  +---139+    +----344+  +-----49+ +----48+  +---212+
```

180

```
                              +-------+
                              |MAPASET|
                              +--+--+
                                 |
        +------------+---------+------------+--------+
        |            |         |            |        |
    +--+---+     +--+---+   +--+---+     +--+---+  +--+---+
    |(CONT)|     |INSAUCS|  |FNDASA|     |VERRCBS|  |VERSMS|
    +---140+     +--+---+   +--138+      +--+---+  +--+---+
                    |                       |        |
        +--------+----+----+----------+     |        |
        |        |         |          |     |        |
    +--+---+ +--+---+  +--+---+   +---+---+  |        |
    |COSQL3| |ERRRPT|  |COEXEC|   |COBINDN| |        |
    +-----2+ +-----2+  +-----2+   +------2+  |        |
                                        +--+---+  +--+---+
                                        |ERRPRO|  |ERRPRO|
                                        +------+  +------+
```

```
                          +------+
                          | INSAUC |
                          +--+---+
                             |
        +---------+----+----+---------+
        |         |         |         |
     +--+---+  +--+---+  +--+---+  +---+---+
     |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
     +-----2+  +-----2+  +-----2+  +------2+
```

```
                      +--------+
                      |INSIAUC |
                      +---+---+
                          |
         +-----------+----+----+-----------+
         |           |         |           |
     +--+---+    +--+---+   +--+---+    +---+---+
     |COSQL3|    |ERRRPT|   |COEXEC|    |COBINDN|
     +-----2+    +-----2+   +-----2+    +------2+
```

```
                              +-------+
                              |DEPFROM|
                              +---+---+
                                  |
         +---------+---------+--+-+---+---------+---------+
         |         |         |      |          |         |
     +--+---+  +--+---+   +--+---+  +-+-+---+  +--+---+  +--+---+
     |(CONT)|  |GENRNME|  |BLKCL1|  |MIGREL|  |CMBRKW|  |(CONT)|
     +---147+  +--+---+   +---112+  +---213+  +--+---+  +---214+
                  |                              |
                  |                 +--------++--------+
                  |                 |         |        |
              +--+---+          +--+---+  +--+---+  +--+---+
              |ADDPARM|         |VERKWR|  |ADDPARM|  |ERRPRO|
              +-----58+         +--+---+  +-----58+  +------+
                                   |
                                   |
                               +--+---+
                               |ERRPRO|
                               +------+
```
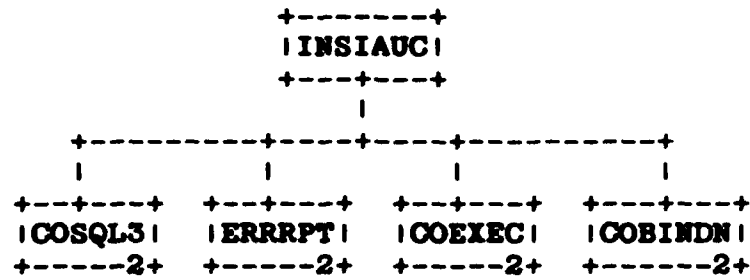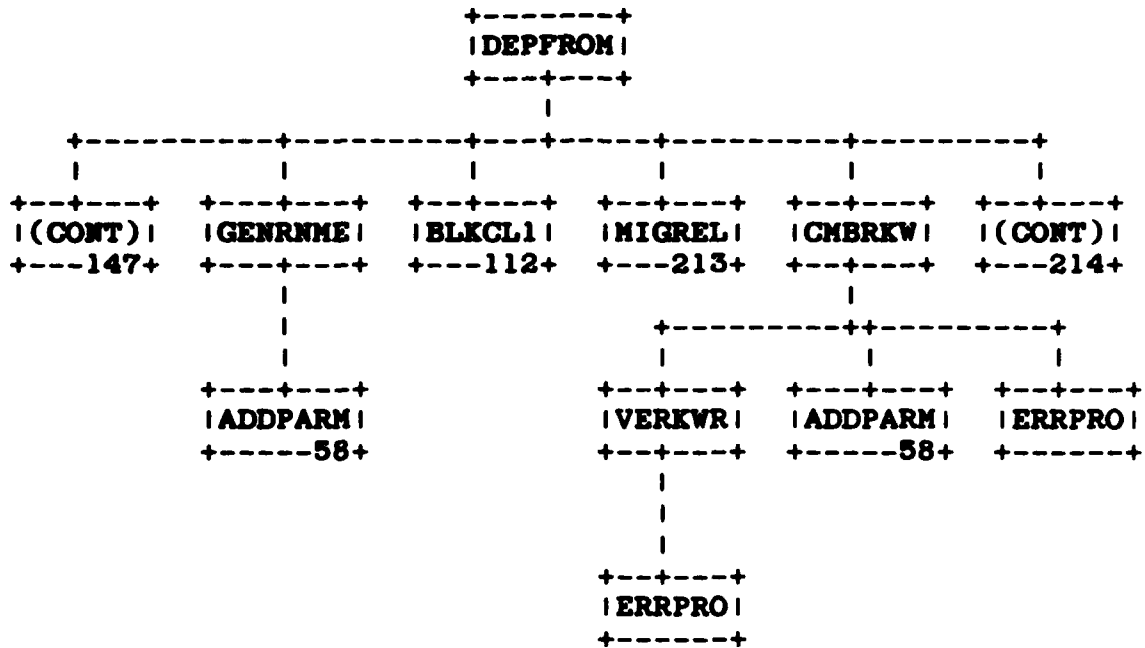
184

```
                        +-------+
                        |INDFROM|
                        +---+---+
                            |
    +----------+--------++---------+---------+
    |          |        |          |         |
 +--+---+   +---+---+  +--+---+  +--+---+  +--+---+
 |(CONT)|   |GENRNME|  |MIGREL|  |CMBRKW|  |(CONT)|
 +---149+   +----183+  +---213+  +---183+  +---215+
```

```
                    +-------+
                    |VRTDESC|
                    +--+----+
                       |
        +----------+-------+----+----------+
        |          |            |          |
    +--+---+   +--+---+    +--+---+   +---+---+
    |COSQL3|   |ERRRPT|    |COEXEC|   |COBINDN|
    +-----2+   +-----2+    +-----2+   +------2+
```

186

```
                          +------+
                          |VEROBJ|
                          +--+---+
                             |
      +---------+---------+----+----+---------+---------+
      |         |         |         |         |         |
   +--+---+  +--+---+  +--+---+  +--+--+  +---+---+  +--+---+
   |(CONT)|  |VERDOM|  |VERMOD|  |VERDB|  |SPRINTF|  |(CONT)|
   +---152+  +----19+  +----21+  +--168+  +-------+  +---216+
```

```
                        +-------+
                        |CESTRUC|
                        +---+---+
                            |
        +-----------+-----------++----------+-----------+
        |           |           |           |           |
    +--+---+    +---+---+    +--+---+    +--+---+    +--+---+
    |(CONT)|    |GENALTE|    |DEPATT|    |DEPENT|    |(CONT)|
    +---153+    +----148+    +--217+    +--+---+    +---218+
                                           |
                    +---------+-----------+-----------+---------+
                    |         |           |           |         |
                +--+---+   +--+---+   +---+---+   +---+---+   +--+---+
                |COSQL3|   |ERRRPT|   |COFETCH|   |STRNCMP|   |(CONT)|
                +-----2+   +-----2+   +-----44+   +-------+   +---219+
```

```
                    +------+
                    |CERELS|
                    +--+---+
                       |
     +-----------+-----+-----+----------+
     |           |           |          |
  +--+---+    +--+---+     +--+---+   +--+---+
  |(CONT)|    |INDFROM|    |CLSFIL|   |ERRPRO|
  +---154+    +----149+    +---114+   +------+
```

```
                         +-------+
                         |BLDATT1|
                         +---+---+
                             |
      +---------+---------+---+-----+---------+--------+
      |         |         |         |         |        |
  +--+---+  +--+--+  +---+---+  +--+---+  +--+--+  +--+---+
  |VERATT|  |UWARN|  |GETNNUM|  |UERROR|  |INSAC|  |(CONT)|
  +----13+  +----7+  +----126+  +-----3+  +--123+  +---220+
```

```
                          +------+
                          |ALLENT|
                          +--+---+
                             |
     +----------+---------+---------+---------+
     |          |         |         |         |
  +--+---+  +---+---+  +--+---+  +---+---+  +--+---+
  |(CONT)|  |BLECLST|  |GENENT|  |STRNCPY|  |(CONT)|
  +---157+  +---+---+  +---221+  +-------+  +---222+
               |
               |
               |
           +---+---+
           |ADDECNM|
           +---+---+
               |
           +----+----+
           |         |
        +--+--+  +---+---+
        |ALLOC|  |STRNCPY|
        +-----+  +-------+
```
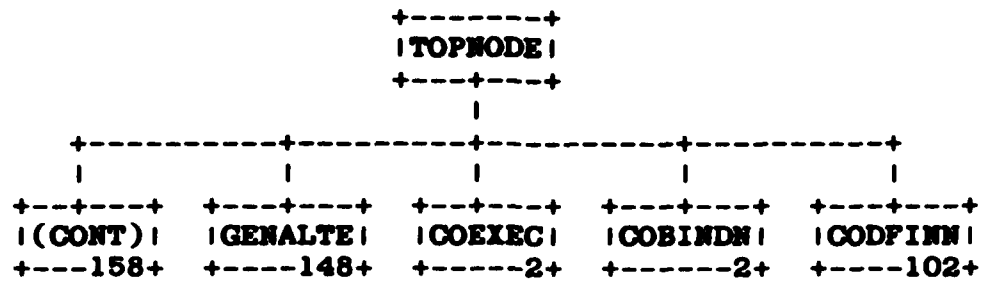
```
                        +-------+
                        |TOPNODE|
                        +---+---+
                            |
        +----------+--------+--------+----------+
        |          |        |        |          |
    +---+---+  +---+---+  +--+---+  +--+---+  +---+---+
    |(CONT) |  |GENALTE|  |COEXEC|  |COBINDN|  |CODFINN|
    +---158+  +----148+  +----2+  +-----2+  +----102+
```
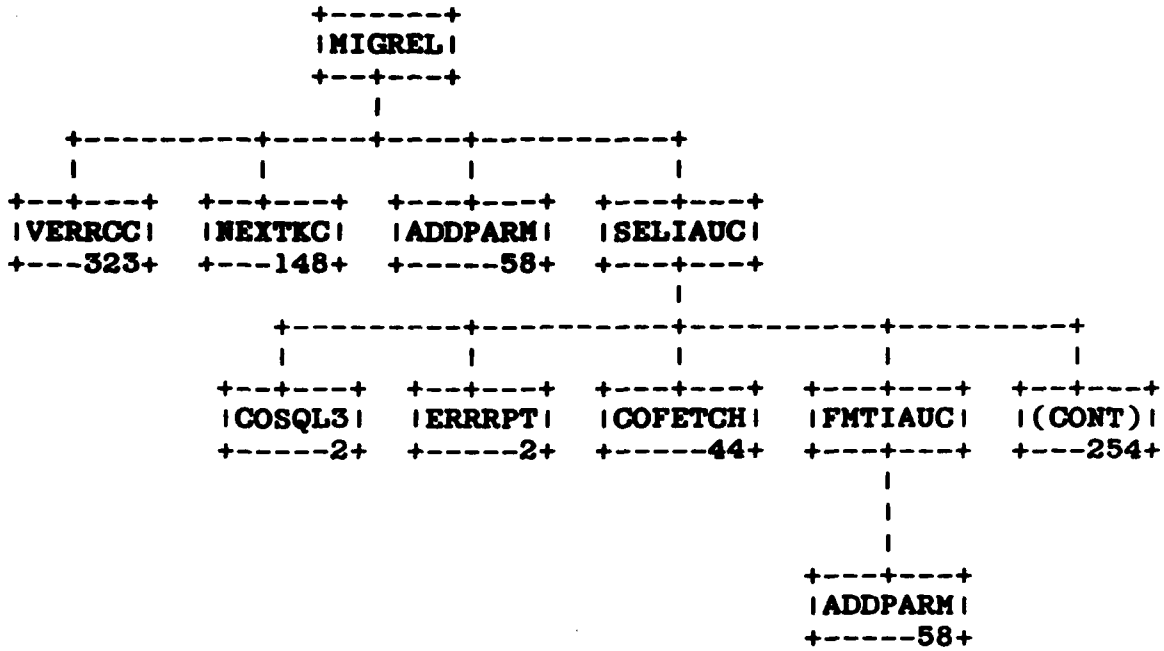
```
                              +------+
                              |BLRCKC|
                              +--+---+
                                 |
         +----------+---------+----------+---------+
         |          |         |          |         |
     +---+---+  +--+---+   +--+---+  +---+---+  +--+---+
     |INITRDL|  |COSQL3|   |ERRRPT|  |COFETCH|  |(CONT)|
     +-------+  +-----2+   +-----2+  +-----44+  +---223+
```

```
                              +------+
                              |ALLREL|
                              +--+---+
                                 |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+    +--+---+    +--+---+    +--+---+    +--+---+
    |(CONT)|    |GETECNM|   |GENREL|    |GENDESC|   |(CONT)|
    +---159+    +----158+   +--+---+    +----146+   +---224+
                               |
            +----------+----+------+----------+
            |          |           |          |
        +--+---+    +--+---+    +--+---+    +--+---+
        |GENRNME|   |MIGREL|    |ADDPARM|   |GENRKW|
        +----183+   +---213+    +-----58+   +--+---+
                                              |
                                      +----+----+
                                      |         |
                                  +--+---+   +--+---+
                                  |ADDPARM|  |ERRPRO|
                                  +-----58+  +------+
```

```
                              +-------+
                              |CHKCARD|
                              +---+---+
                                  |
          +---------+--------++--------+---------+
          |         |        ||        |         |
      +--+---+  +--+---+  +--+--+  +--+---+  +--+---+
      |CPFONE|  |LOWUPP|  |UWARN|  |CPFNXT|  |UERROR|
      +----12+  +----12+  +----7+  +----16+  +-----3+
```

```
                        +------+
                        |INSSEC|
                        +--+---+
                           |
        +----------+----+----+----------+
        |          |         |          |
     +--+---+   +--+---+  +--+---+   +---+---+
     |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
     +-----2+   +-----2+  +-----2+   +------2+
```

```
                           +-------+
                           |REMVIEW|
                           +---+---+
                               |
      +----------+-------+------+------+----------+----------+
      |          |       |      |           |          |
  +--+---+   +--+---+  +--+---+  +--+---+   +--+---+   +--+---+
  |UERROR|   |P1FROM|  |EXPRCLT| |VERRELS|  |PMFROM|   |BLSECRC|
  +-----3+   +---225+  +-------+ +--+---+   +---226+   +----227+
                                    |
                          +---------+---------+
                          |         |         |
                      +--+---+  +--+---+  +--+--+
                      |VERREL|  |UERROR|  |CDP4A|
                      +----80+  +-----3+  +--+--+
                                             |
                                             |
                                          +--+---+
                                          |ERRPRO|
                                          +------+
```

```
                          +-----+
                          |DEFDB|
                          +--+--+
                             |
     +----------+----------+----+----+----------+----------+
     |          |          |         |          |          |
  +--+---+   +--+--+   +---+---+   +--+---+   +--+---+   +--+---+
  |(CONT)|   |INSDB|   |DEFORCL|   |DEFTOT|   |DEFIMS|   |(CONT)|
  +---168+   +--228+   +----229+   +---230+   +---231+   +---232+
```

3-1313

198

```
                              +------+
                              |GETRDH|
                              +--+---+
                                 |
      +---------+---------+---+---+----+---------+---------+
      |         |         |        |            |         |
   +--+---+  +--+---+  +--+---+  +--+---+    +--+---+   +--+---+
   |CPFONE|  |VERDBAS| |UERROR|  |CHGLOBL|   |GETGLOB|  |ERRPRO|
   +----12+  +----170+ +-----3+  +------+    +--+---+   +------+
                                                |
                                                |
                                                |
                                             +--+---+
                                             |STRNCPY|
                                             +------+
```
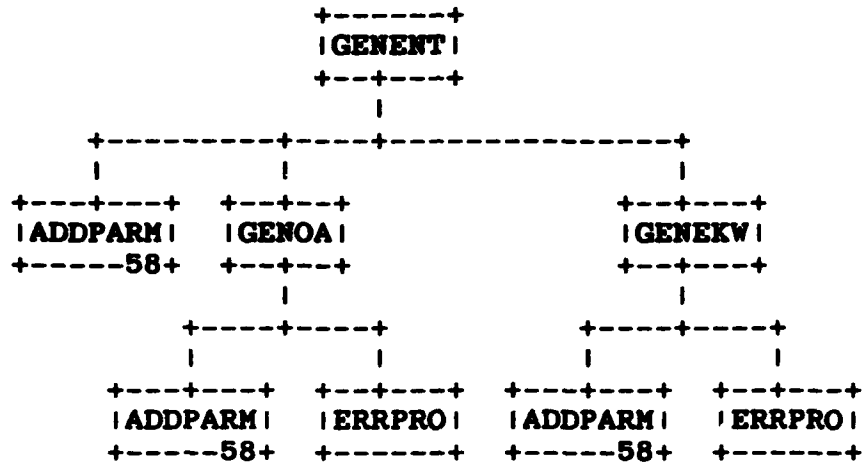
```
                        +-------+
                        |INSRTYP|
                        +---+---+
                            |
        +-----------+--------++---------+---------+
        |           |         |         |         |
    +---+---+   +---+---+  +--+---+  +--+---+  +--+---+
    |GETNNUM|   |SPRINTF|  |UERROR|  |COSQL3|  |(CONT)|
    +----126+   +-------+  +-----3+  +-----2+  +---233+
```

```
                              +--------+
                              | DEFAREA |
                              +---+---+
                                  |
      +----------+---------+---+----+---------+---------+
      |          |         |        |         |         |
   +--+---+   +--+---+   +-+---+   +--+---+   +--+---+   +--+---+
   |CPFONE|   |VERAREA|  |UERROR|  |INSDAA|   |CPFNXT|   |ERRPRO|
   +----12+   +----230+  +-----3+  +--+---+   +----16+   +------+
                                      |
                    +----------+----+----+---------+
                    |          |         |         |
                 +--+---+   +--+---+   +--+---+   +---+---+
                 |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                 +-----2+   +-----2+   +-----2+   +------2+
```
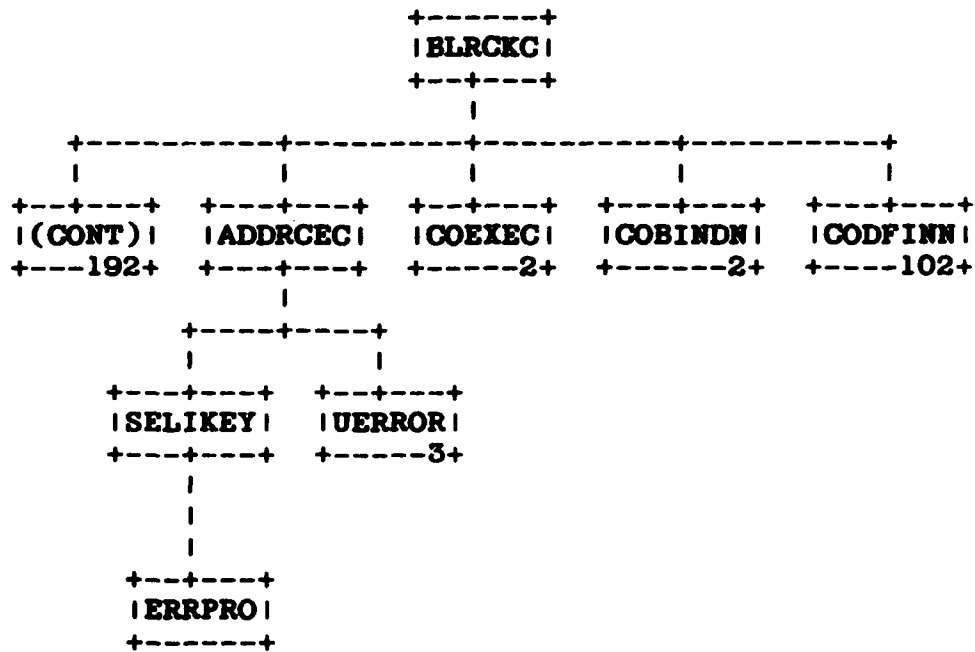
3-1316

201

```
                          +------+
                          |DEFREC|
                          +--+---+
                             |
      +----------+--------++---------+---------+
      |          |        |          |         |
  +--+---+   +---+---+  +--+---+   +--+---+  +--+---+
  |(CONT)|   |DEFIMSS|  |DEFFLD|   |DEFKEY|  |ERRPRO|
  +---169+   +----234+  +---235+   +---236+  +------+
```

```
                            +-----+
                            |DRPDB|
                            +--+--+
                               |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +---+---+   +--+---+   +---+---+  +--+---+
    |(CONT)|   |DELDBS1|   |DELSW1|   |DELDBRT|  |(CONT)|
    +---170+   +----237+   +--+---+   +----238+  +---239+
                              |
              +---------+----+----+----------+
              |         |         |          |
          +--+---+  +--+---+  +--+---+   +---+---+
          |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
          +-----2+  +-----2+  +-----2+   +------2+
```

```
                        +------+
                        |DRPFLD|
                        +--+---+
                           |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +--+---+   +---+--+   +---+---+   +--+---+
    |CPFONE|   |UERROR|   |VERDBAS|  |VERDFLD|   |(CONT)|
    +----12+   +-----3+   +----170+  +----211+   +---240+
```

204

```
                              +------+
                              |DRPSET|
                              +--+---+
                                 |
         +-----------+---------+-----------+----------+
         |           |         |           |          |
     +--+---+    +---+---+  +--+---+    +---+---+  +--+---+
     |CPFONE|    |VERDBAS|  |UERROR|    |VERRSET|  |(CONT)|
     +----12+    +----170+  +-----3+    +----134+  +---241+
```

205

```
                            +------+
                            |DESCRB|
                            +--+---+
                               |
        +----------+----------+----+----+----------+----------+
        |          |          |         |          |          |
     +--+---+   +--+---+   +--+---+   +--+---+   +---+---+   +--+---+
     |CPFONE|   |VEROBJ|   |TXTTYP|   |RDDESC|   |LOADESC|   |(CONT)|
     +----12+   +----91+   +--+---+   +---242+   +---+---+   +---243+
                              |                      |
                              |                +----+----+
                              |                |         |
                           +--+---+         +---+---+  +--+--+
                           |CPFONE|         |SPRINTF|  |UWARN|
                           +----12+         +-------+  +----7+
```
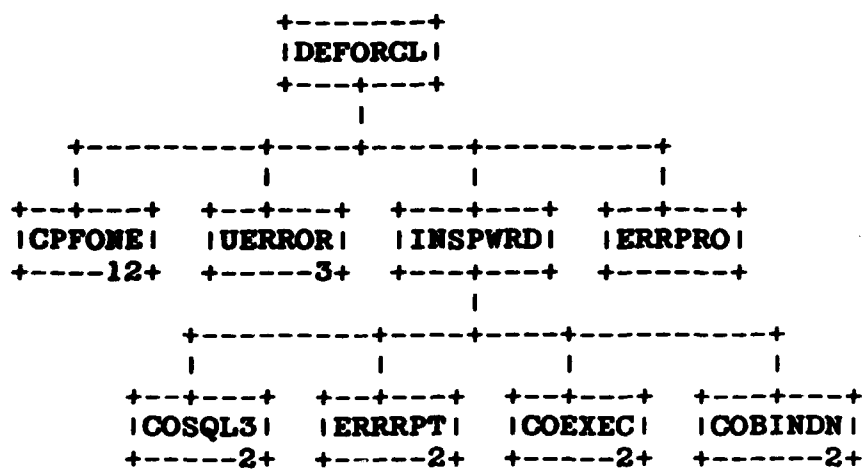
```
                              +-------+
                              |BRANCHR|
                              +---+---+
                                  |
        +---------+---------+-----+----+----------+---------+
        |         |         |          |          |         |
    +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
    |(CONT)|  |DRPATT|  |DRPDOM|  |DRPALI|  |DRPVIEW| |(CONT)|
    +---171+  +---244+  +---245+  +---246+  +----247+ +---248+
```

```
                    +------+
                    |GETDRT|
                    +--+---+
                       |
        +---------+----+-----+---------+
        |         |          |         |
    +--+---+  +--+---+    +---+---+  +--+--+
    |CPFONE|  |UERROR|    |VERDBAS|  |VERRT|
    +----12+  +-----3+    +----170+  +--169+
```

```
                    +-------+
                    |DELRTY2|
                    +---+---+
                        |
        +---------+----+----+----------+
        |         |         |          |
    +--+---+   +--+---+   +--+---+   +---+---+
    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+   +-----2+   +-----2+   +------2+
```
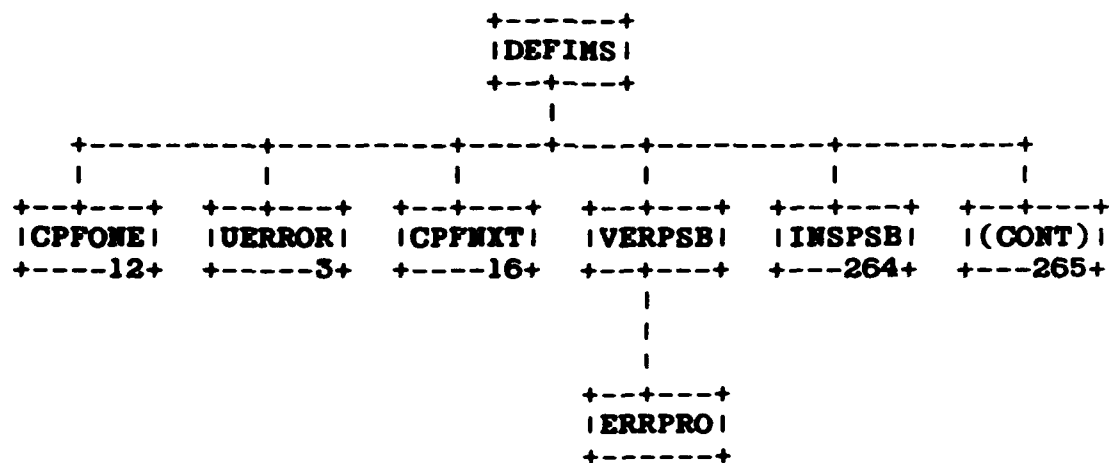
```
                         +------+
                         |DRPREC|
                         +--+--+
                            |
      +----------+----------++----------+----------+
      |          |           |          |          |
   +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
   |(CONT)|   |DELTEXT|   |DELDAA2|   |DELDFL2|   |(CONT)|
   +---171+   +----373+   +----249+   +----250+   +---251+
```
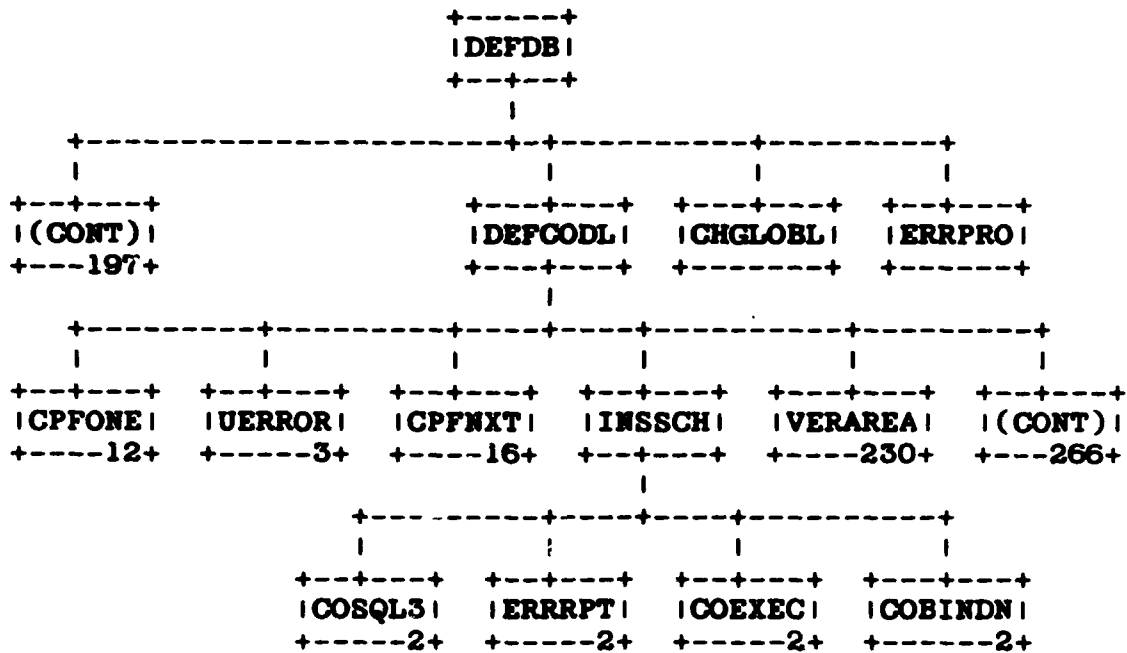
210

```
                          +-------+
                          |GETDBST|
                          +---+---+
                              |
          +--------------+----+-----+----------+
          |              |          |          |
      +---+---+      +---+---+   +--+---+   +---+---+
      |(CONT) |      |GETGLOB|   |CPFNXT|   |ERRPRO |
      +---172+      +----198+   +----16+   +------+
```

```
                           +------+
                           |DEFSET|
                           +--+---+
                              |.
       +----------+----------+---+-----+----------+----------+
       |          |          |         |          |          |
   +--+---+   +---+---+   +---+---+  +--+---+   +--+---+   +--+---+
   |(CONT)|   |INSRSET|   |VERDFLD|  |INSDSL|   |CPFCOR|   |LOWUPP|
   +---173+   +----252+   +---+---+  +---253+   +--+---+   +----12+
                              |                    |
                              |                    |
                              |                    |
                          +--+---+             +---+---+
                          |ERRPRO|             |STRNCPY|
                          +------+             +-------+
```

```
                        +------+
                        |MAPADF|
                        +--+---+
                           |
          +-----------+---+-----+---------+
          |           |         |         |
       +--+---+    +--+---+   +--+---+  +--+--+
       |(CONT)|    |FINDDOM|  |VERPDF|  |VERDF|
       +---179+    +-----49+  +----49+  +--+--+
                                           |
                                           |
                                           |
                                        +--+---+
                                        |ERRPRO|
                                        +------+
```
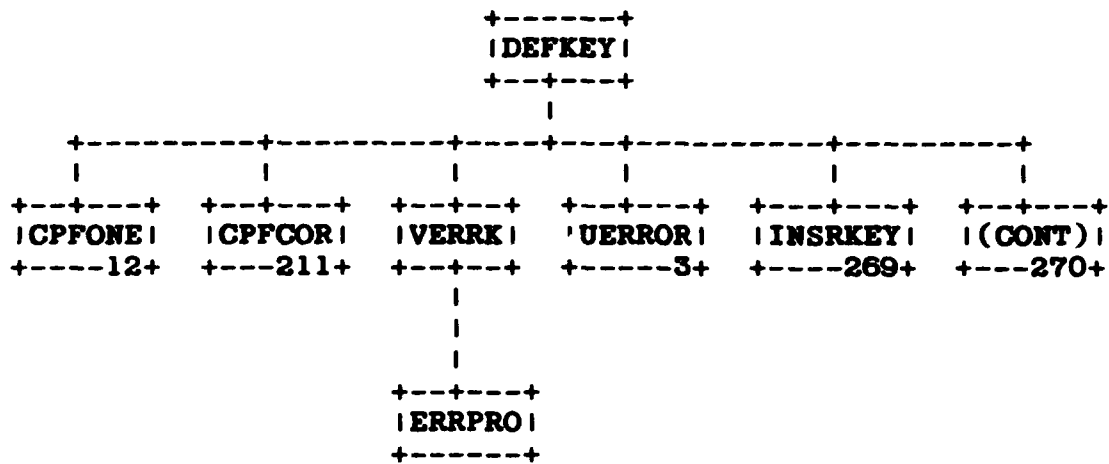
```
                          +------+
                          |MIGREL|
                          +--+---+
                             |
         +---------+-----+---+-----------+
         |         |     |               |
      +--+---+  +--+---+ +---+---+  +---+---+
      |VERRCC|  |NEXTKC| |ADDPARM|  |SELIAUC|
      +---323+  +---148+ +-----58+  +---+---+
                                        |
                  +---------+---------+---------+---------+
                  |         |         |         |         |
               +--+---+  +--+---+  +--+---+  +---+---+  +--+---+
               |COSQL3|  |ERRRPT|  |COFETCH|  |FMTIAUC|  |(CONT)|
               +-----2+  +-----2+  +-----44+  +---+---+  +---254+
                                                  |
                                                  |
                                                  |
                                              +---+---+
                                              |ADDPARM|
                                              +-----58+
```

```
                           +--------+
                           |DEPFROM |
                           +---+---+
                               |
         +----------+----+-----+------+----------+
         |          |          |             |
     +--+---+   +---+---+   +---+---+     +--+---+
     |(CONT)|   |ADDPARM|   |GENDESC|     |ERRPRO|
     +---183+   +-----58+   +----146+     +------+
```

```
                      +-------+
                      |INDFROM|
                      +---+---+
                          |
        +----------+----+-----+---------+
        |               |         |          |
     +--+---+      +---+---+   +---+---+   +--+---+
     |(CONT)|      |ADDPARM|   |GENDESC|   |ERRPRO|
     +---184+      +-----58+   +----146+   +------+
```

```
                    +------+
                    |VEROBJ|
                    +--+---+
                       |
        +---------+----+----+---------+
        |         |         |         |
    +--+---+   +--+---+  +--+--+   +---+---+
    |(CONT)|   |UERROR|  |VERRT|   |VERRSET|
    +---186+   +-----3+  +--169+   +----134+
```

```
                        +------+
                        |DEPATT|
                        +--+---+
                           |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +--+---+   +---+---+   +---+---+   +--+---+
    |COSQL3|   |ERRRPT|   |COFETCH|   |STRNCMP|   |(CONT)|
    +-----2+   +-----2+   +-----44+   +-------+   +---255+
```

```
                              +-------+
                              |CESTRUC|
                              +---+---+
                                  |
      +-----------------------+---+----+----------+----------+
      |                       |        |          |          |
  +--+---+               +---+---+  +--+---+   +--+---+   +--+---+
  |(CONT)|               |DPKCLST|  |DEPREL|   |CLSFIL|   |ERRPRO|
  +---187+               +---+---+  +---256+   +---114+   +------+
                             |
          +---------+--------++--------+---------+
          |         |         |        |         |
      +--+---+  +--+---+   +---+---+  +--+---+  +--+---+
      |COSQL3|  |ERRRPT|   |COFETCH|  |AKCROW|  |(CONT)|
      +-----2+  +-----2+   +-----44+  +---112+  +---257+
```

```
                        +------+
                        |DEPENT|
                        +--+---+
                           |
        +----------+----------++---------+----------+
        |          |          |          |          |
     +--+---+   +---+---+   +---+---+   +--+---+   +--+---+
     |(CONT)|   |GENDESC|   |BLECLST|   |GENENT|   |(CONT)|
     +---187+   +----146+   +----190+   +---221+   +---258+
```

```
                              +-------+
                              |BLDATT1|
                              +---+---+
                                  |
      +-----------+-----------+-----------+-----------+
      |           |           |           |           |
  +--+---+    +---+---+    +---+---+    +---+---+    +---+---+
  |(CONT) |   |VRTANAM|    |WRTACKV|    |INSACNM|    |WRTDESC|
  +---189+    +---+---+    +----150+    +----124+    +----185+
                  |
      +-----------+---------+
      |           |         |
  +---+---+    +--+---+   +--+---+
  |INSACNM|    |UERROR|   |ERRPRO|
  +----124+    +-----3+   +------+
```

```
                          +------+
                          |GENENT|
                          +--+---+
                             |
              +----------+----+--------------+
              |          |                   |
         +---+---+   +--+--+              +--+---+
         |ADDPARM|   |GENOA|              |GENEKW|
         +-----58+   +--+--+              +--+---+
                        |                    |
                   +----+----+          +----+----+
                   |         |          |         |
              +--+---+   +--+---+   +---+---+  +--+---+
              |ADDPARM|  |ERRPRO|   |ADDPARM|  |ERRPRO|
              +-----58+  +------+   +-----58+  +------+
```
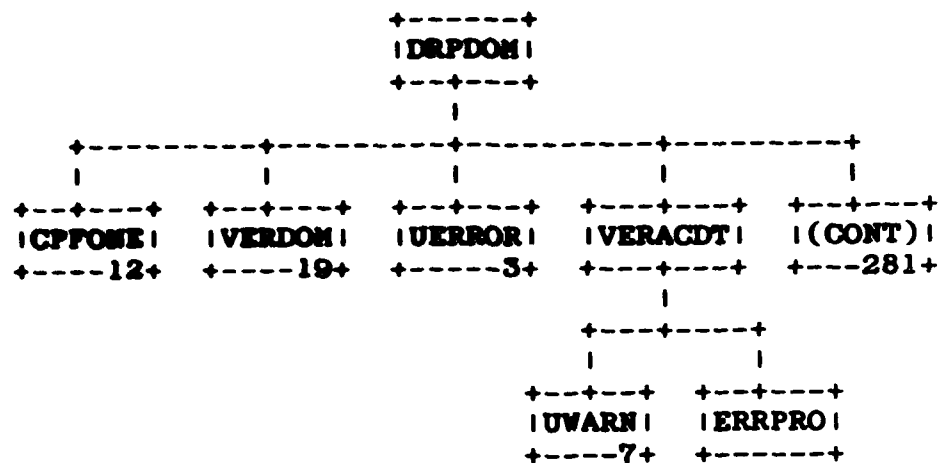
222

```
                          +------+
                          |ALLENT|
                          +--+---+
                             |
      +----------+----------+----+----+----------+----------+
      |          |          |         |          |          |
   +--+---+   +---+---+   +--+---+  +--+---+   +---+---+   +---+---+
   |(CONT)|   |GENDESC|   |GENALI|  |COEXEC|   |COBINDN|   |CODFINN|
   +---190+   +----146+   +---151+  +-----2+   +------2+   +----102+
```

223

```
                              +------+
                              |BLRCKC|
                              +--+---+
                                 |
        +----------+------------+------------+---------+
        |          |            |            |         |
    +--+---+    +---+---+    +--+---+    +---+---+   +---+---+
    |(CONT)|    |ADDRCEC|    |COEXEC|    |COBINDN|   |CODFINN|
    +---192+    +---+---+    +-----2+    +------2+   +----102+
                    |
               +----+----+
               |         |
           +---+---+  +--+---+
           |SELIKEY|  |UERROR|
           +---+---+  +-----3+
               |
               |
               |
           +--+---+
           |ERRPRO|
           +------+
```

224

```
                              +------+
                              |ALLREL|
                              +--+---+
                                 |
    +----------+----------+----+----+----------+----------+
    |          |          |         |          |          |
 +--+---+   +--+---+   +---+---+  +--+---+   +---+---+  +---+---+
 |(CONT)|   |ALLKEY|   |STRNCPY|  |COEXEC|   |COBINDN|  |CODFINN|
 +---193+   +---259+   +-------+  +-----2+   +------2+  +----102+
```

```
                              +------+
                              |P1FROM|
                              +--+---+
                                 |
        +----------+---------+---------+----------+
        |          |         |         |          |
    +--+---+    +--+---+   +--+---+   +--+---+   +---+---+
    |VERENT|    |UERROR|   |ALLVIEW|  |SMVIEW|   |CHKDOMS|
    +----14+    +-----3+   +--+---+   +---260+   +----261+
                              |
           +----------+--------++---------+---------+
           |          |         |         |         |
       +--+---+    +--+---+   +--+--+   +--+---+   +--+---+
       |VERSDT|    |UERROR|   |INSDI|   |INSPDI|   |ERRPRO|
       +----48+    +-----3+   +--262+   +--+---+   +------+
                                          |
                 +----------+----+----+----------+
                 |          |         |          |
             +--+---+    +--+---+   +--+---+   +---+---+
             |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
             +-----2+    +-----2+   +-----2+   +------2+
```

```
                        +------+
                        |PMFROM|
                        +--+---+
                           |
            +-----------+---------+
            |                     |
        +---+---+             +---+---+
        |EXPRTLT|             |PNOFROM|
        +---+---+             +---+---+
            |                     |
            |              +------+---------+
            |              |      |         |
        +--+---+       +--+---+ +--+---+ +---+---+
        |UERROR|       |UERROR| |VERENT| |CHKDOMS|
        +-----3+       +-----3+ +----14+ +----261+
```
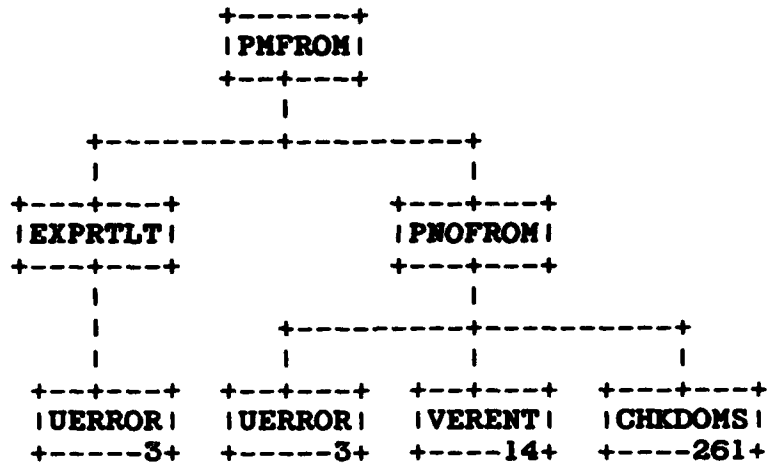
```
                        +-------+
                        |BLSECRC|
                        +---+---+
                            |
                        +---+---+
                        |       |
                    +---+---+ +---+---+
                    |INSSECR| |UERROR |
                    +---+---+ +-----3+
                        |
        +---------+-----+---+---+----------+
        |         |         |             |
    +--+---+  +--+---+  +--+---+     +---+---+
    |COSQL3|  |ERRRPT|  |COEXEC|     |COBINDN|
    +-----2+  +-----2+  +-----2+     +------2+
```
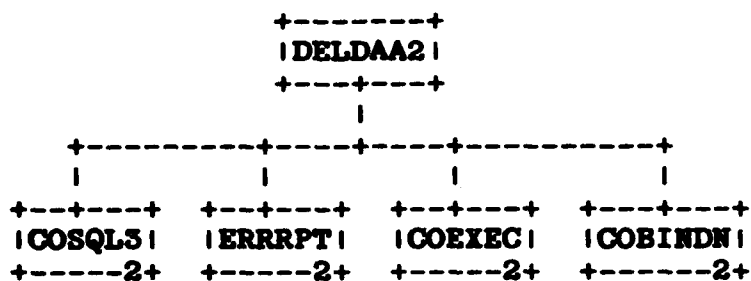
```
                          +-----+
                          |INSDB|
                          +--+--+
                             |
         +---------+----+----+----------+
         |         |         |          |
     +--+---+   +--+---+   +--+---+   +---+---+
     |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
     +-----2+   +-----2+   +-----2+   +------2+
```

```
                        +-------+
                        |DEFORCL|
                        +---+---+
                            |
        +-----------+-------+-----+---------+
        |           |             |         |
    +--+---+    +--+---+      +---+---+   +--+---+
    |CPFONE|    |UERROR|      |INSPWRD|   |ERRPRO|
    +----12+    +-----3+      +---+---+   +------+
                                  |
            +---------+-------+----+----+---------+
            |         |            |         |
        +--+---+  +--+---+     +--+---+  +---+---+
        |COSQL3|  |ERRRPT|     |COEXEC|  |COBINDN|
        +-----2+  +-----2+     +-----2+  +------2+
```

3-1345

230

```
                              +------+
                              |DEFTOT|
                              +--+---+
                                 |
      +---------+---------+----+-----+---------+--------+
      |         |         |         |         |        |
   +--+---+  +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
   |CPFONE|  |UERROR|  |VERAREA|  |INSAREA|  |CPFNXT|  |ERRPRO|
   +----12+  +-----3+  +---+---+  +----263+  +----16+  +------+
                           |
                           |
                           |
                       +--+---+
                       |ERRPRO|
                       +------+
```

```
                              +------+
                              |DEFIMS|
                              +--+---+
                                 |
      +---------+---------+----+--+--+---------+----------+
      |         |         |       |           |          |
  +--+---+  +--+---+  +--+---+  +--+---+   +--+---+   +--+---+
  |CPFONE|  |UERROR|  |CPFNXT|  |VERPSB|   |INSPSB|   |(CONT)|
  +----12+  +-----3+  +----16+  +--+---+   +---264+   +---265+
                                   |
                                   |
                                   |
                                +--+---+
                                |ERRPRO|
                                +------+
```

3-1347

```
                              +-----+
                              |DEFDB|
                              +--+--+
                                 |
        +------------------------+-+----------+----------+
        |                          |          |          |
     +--+---+                   +--+---+    +--+---+    +--+---+
     |(CONT)|                   |DEFCODL|   |CHGLOBL|   |ERRPRO|
     +---197+                   +--+---+    +-------+    +------+
                                   |
        +---------+----------+-----+----+----------+----------+
        |         |          |          |          |          |
     +--+---+  +--+---+    +--+---+    +--+---+   +---+---+   +--+---+
     |CPFONE|  |UERROR|    |CPFNXT|    |IMSSCH|   |VERAREA|   |(CONT)|
     +----12+  +-----3+    +----16+    +--+---+   +----230+   +---266+
                                          |
              +--------------+----+----+----------+
              |              |         |          |
           +--+---+       +--+---+   +--+---+   +---+---+
           |COSQL3|       |ERRRPT|   |COEXEC|   |COBINDN|
           +-----2+       +-----2+   +-----2+   +------2+
```

233

```
              +--------+
              | INSRTYP |
              +---+----+
                  |
    +----------+----+----+----------+
    |          |         |          |
 +--+---+   +--+---+  +--+---+   +---+---+
 |(CONT)|   |ERRRPT|  |COEXEC|   |COBINDW|
 +---199+   +-----2+  +-----2+   +------2+
```

234

```
                        +--------+
                        |DEFIMSS |
                        +---+----+
                            |
        +-----------+-------+-----+---------+
        |           |             |         |
    +---+---+   +---+---+     +---+---+  +--+---+
    |CPFOME |   |UERROR |     |IMSISS |  |ERRPRO|
    +-----12+   +------3+     +---+---+  +------+
                                 |
        +-----------+-------+----+----+---------+
        |           |            |              |
    +---+---+   +---+---+    +---+---+     +---+---+
    |COSQL3 |   |ERRRPT |    |COEXEC |     |COBINDN|
    +------2+   +------2+    +------2+     +------2+
```

```
                              +------+
                              |DEFFLD|
                              +--+---+
                                 |
        +----------+---------+----+----+---------+---------+
        |          |         |         |         |         |
    +--+---+    +--+---+   +--+---+  +--+---+  +--+---+  +--+---+
    |CPFONE|    |CPFCOR|   |LOWUPP|  |INSDFLD| |UERROR|  |(CONT)|
    +----12+    +---211+   +----12+  +---+---+  +-----3+  +---267+
                                         |
                 +----------+---------++--------+---------+
                 |          |         |         |         |
             +---+---+  +---+---+  +--+---+  +--+---+  +--+---+
             |GETNNUM|  |SPRINTF|  |UERROR|  |COSQL3|  |(CONT)|
             +----126+  +-------+  +-----3+  +-----2+  +---268+
```
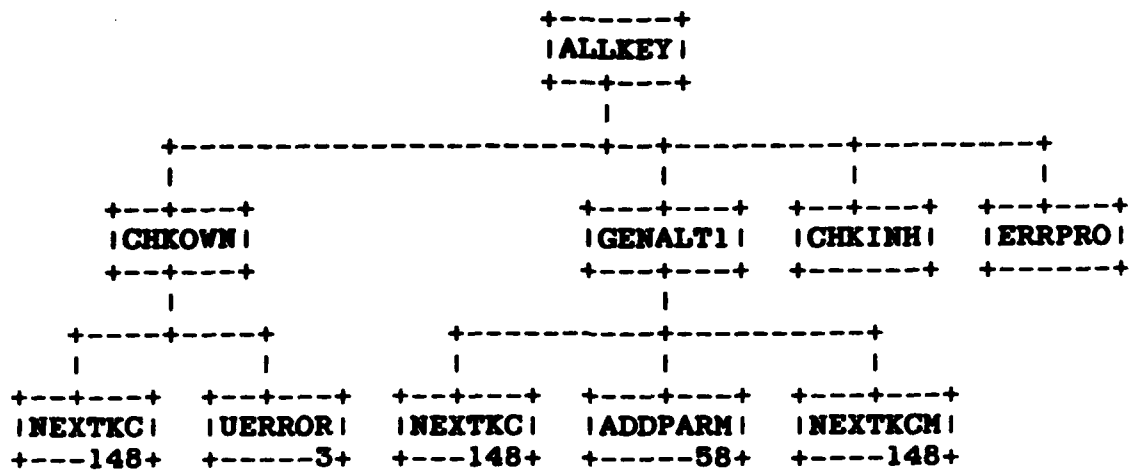
```
                                    +------+
                                    |DEFKEY|
                                    +--+---+
                                       |
      +---------+---------+----+---+---------+---------+
      |         |         |        |         |         |
   +--+---+  +--+---+  +--+--+  +--+--+  +---+---+  +--+---+
   |CPFONE|  |CPFCOR|  |VERRK|  'UERROR|  |INSRKEY|  |(CONT)|
   +----12+  +---211+  +--+--+  +-----3+  +----269+  +---270+
                          |
                          |
                          |
                       +--+---+
                       |ERRPRO|
                       +------+
```

```
                    +--------+
                    |DELDBS1 |
                    +---+---+
                        |
        +------------+----+----+----------+
        |            |         |          |
     +--+---+    +--+---+   +--+---+   +---+---+
     |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDM|
     +-----2+    +-----2+   +-----2+   +------2+
```
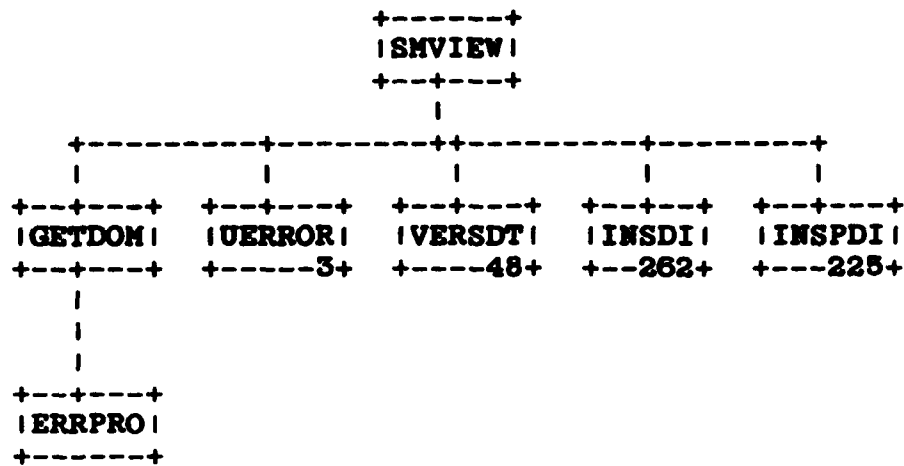
```
                        +--------+
                        |DELDERT |
                        +---+----+
                            |
      +------------+------------+----------+---------+
      |            |            |          |         |
  +---+---+    +--+---+    +---+---+   +---+---+  +--+---+
  |DELRTY2|    |UERROR|    |ADDRNUM|   |DELTEXT|  |ERRPRO|
  +----208+    +-----3+    +----355+   +----373+  +------+
```

239

```
                        +-----+
                        |DRPDB|
                        +--+--+
                           |
    +-----------+-------+--+------+-----------+---------+
    |           |       |         |           |
 +--+---+   +---+---+  +--+----+  +---+---+   +--+---+
 |(CONT)|   |DELDAA1|  |DELDBDF|  |DELDBST|   |(CONT)|
 +---202+   +---+---+  +----271+  +----272+   +---273+
                |
       +--------+-------+-------+--------+
       |        |       |        |
   +---+---+ +--+---+ +--+---+ +---+---+
   |COSQL3 | |ERRRPT| |COEXEC| |COBINDN|
   +------2+ +-----2+ +-----2+ +------2+
```
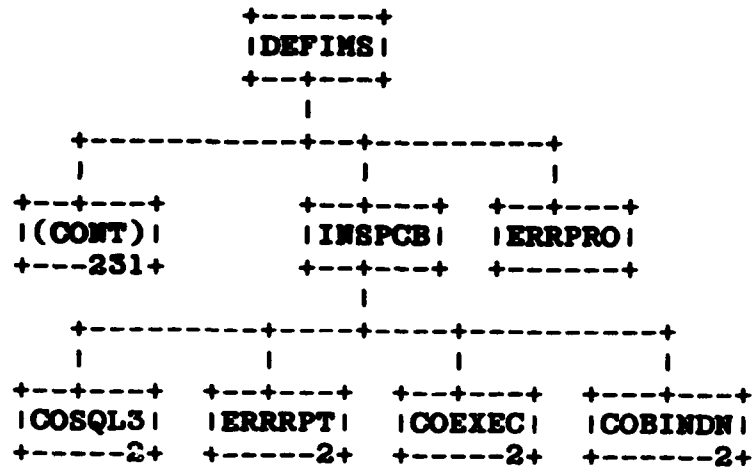
240

```
                              +------+
                              |DRPFLD|
                              +--+---+
                                 |
      +----------+----------+----++---------+----------+
      |          |          |          |          |
   +--+---+   +--+---+   +--+---+   +--+---+   +--+---+
   |(CONT)|   |ADDRNUM|  |DELTEXT|  |VERDSL3|  |(CONT)|
   +---203+   +----355+  +----373+  +--+---+   +---274+
                                       |
                                       |
                                       |
                                    +--+---+
                                    |ERRPRO|
                                    +------+
```

```
                            +------+
                            |DRPSET|
                            +--+---+
                               |
         +----------+---------++----------+----------+
         |          |          |          |          |
     +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
     |(CONT)|   |DELRST2|   |DELSTM2|   |DELASM2|   |(CONT)|
     +---204+   +----275+   +---+---+   +----336+   +---276+
                               |
                 +----------+---+---+----------+
                 |          |        |         |
             +--+---+   +--+---+   +--+---+   +---+---+
             |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
             +-----2+   +-----2+   +-----2+   +------2+
```

```
                              +------+
                              |RDDESC|
                              +--+---+
                                 |
          +---------+---------+--++---------+---------+
          |         |         |            |         |
      +--+---+  +--+---+  +---+---+   +--+---+  +--+---+
      |COSQL3|  |ERRRPT|  |SPRINTF|   |UERROR|  |(CONT)|
      +-----2+  +-----2+  +-------+   +-----3+  +---277+
```

```
                        +------+
                        |DESCRB|
                        +--+---+
                           |
     +----------+---------++---------+----------+
     |          |          |          |          |
 +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
 |(CONT)|   |TOUPPER|   |VERDSTP|   |SPRINTF|   |UERROR|
 +---205+   +-------+   +-----61+   +-------+   +-----3+
```

```
                              +------+
                              |DRPATT|
                              +--+---+
                                 |
    +-----------+---------+---+-----+---------+---------+
    |           |             |         |         |         |
 +--+---+   +---+---+     +--+---+   +--+---+   +--+--+   +--+---+
 |CPFONE|   |DELMTKC|     |VERATT|   |DELOAC|   |DELAC|   |(CONT)|
 +----12+   +-----44+     +----13+   +---278+   +--279+   +---280+
```

```
                        +------+
                        |DRPDOM|
                        +--+---+
                           |
      +-------------+------------+--------+---------+
      |             |            |        |         |
   +--+---+     +--+---+     +--+---+  +---+---+  +--+---+
   |CPPOME|     |VERDOM|     |UERROR|  |VERACDT|  |(CONT)|
   +----12+     +----19+     +-----3+  +---+---+  +---281+
                                           |
                                    +---+----+
                                    |        |
                                +--+--+   +--+---+
                                |UWARN|   |ERRPRO|
                                +----7+   +------+
```

MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS-1963-A

246

```
                              +------+
                              |DRPAL |
                              +--+---+
                                 |
        +---------+---------+----+----+---------+---------+
        |         |         |         |         |         |
     +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
     |CPFONE|  |LOWUPP|  |VERENT|  |UERROR|  |VERATT|  |(CONT)|
     +----12+  +----12+  +----14+  +-----3+  +----13+  +---282+
```

```
                        +-------+
                        |DRPVIEW|
                        +--+----+
                           |
        +---------+--------++--------+---------+
        |         |         |        |         |
    +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
    |CPFONE|  |VERVIEW|  |UERROR|  |DELPD |  |(CONT)|
    +----12+  +----133+  +-----3+  +--+---+  +---283+
                                      |
                        +---------+---+----+---------+
                        |         |        |         |
                    +--+--+   +--+---+  +--+---+  +---+---+
                    |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
                    +-----2+  +-----2+  +-----2+  +------2+
```

```
                              +-------+
                              |BRANCHR|
                              +--+----+
                                 |
       +---------+---------+----+----+---------+---------+
       |         |         |         |         |         |
    +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
    |(CONT)|  |DRPKWC|  |DRPMAP|  |DRPENT|  |DRPMOD|  |(CONT)|
    +---206+  +---284+  +---285+  +--+---+  +---286+  +---287+
                                    |
       +---------+---------+----+----+---------+---------+
       |         |         |         |         |         |
    +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
    |CPFONE|  |VERENT|  |UERROR|  |FNDOAC|  |FNDAUC|  |(CONT)|
    +----12+  +----14+  +-----3+  +---288+  +--+---+  +---289+
                                              |
                                 +---------+---------+
                                 |         |         |
                              +--+---+  +--+---+  +--+---+
                              |DELAUC|  |UERROR|  |ERRPRO|
                              +---307+  +-----3+  +------+
```

```
                        +-------+
                        |DELDAA2|
                        +---+---+
                            |
        +----------+----+----+---------+
        |               |         |          |
     +--+---+       +--+---+    +--+---+    +---+---+
     |COSQL3|       |ERRRPT|    |COEXEC|    |COBINDN|
     +-----2+       +-----2+    +-----2+    +------2+
```

250

```
                          +-------+
                          |DELDFL2|
                          +---+---+
                              |
     +---------+---------+----+-----+---------+--------+
     |         |         |          |         |        |
  +--+---+  +--+---+  +---+----+  +--+----+ +--+--+  +--+---+
  |COSQL3|  |ERRRPT|  |COFETCH |  |DELTEXT| |DRPDF|  |(CONT)|
  +-----2+  +-----2+  +-----44+  +----373+ +--290+  +---291+
```

```
                        +------+
                        |DRPREC|
                        +--+---+
                           |
        +---------+---------+---------+---------+
        |         |         |         |         |
     +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
     |(CONT)|  |PDFREC|  |DELRKY2| |DELRKM2| |(CONT)|
     +---209+  +---292+  +----338+ +---+---+  +---293+
                                       |
                  +---------+----+----+---------+
                  |         |         |         |
               +--+---+  +--+---+  +--+---+  +---+---+
               |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
               +-----2+  +-----2+  +-----2+  +------2+
```
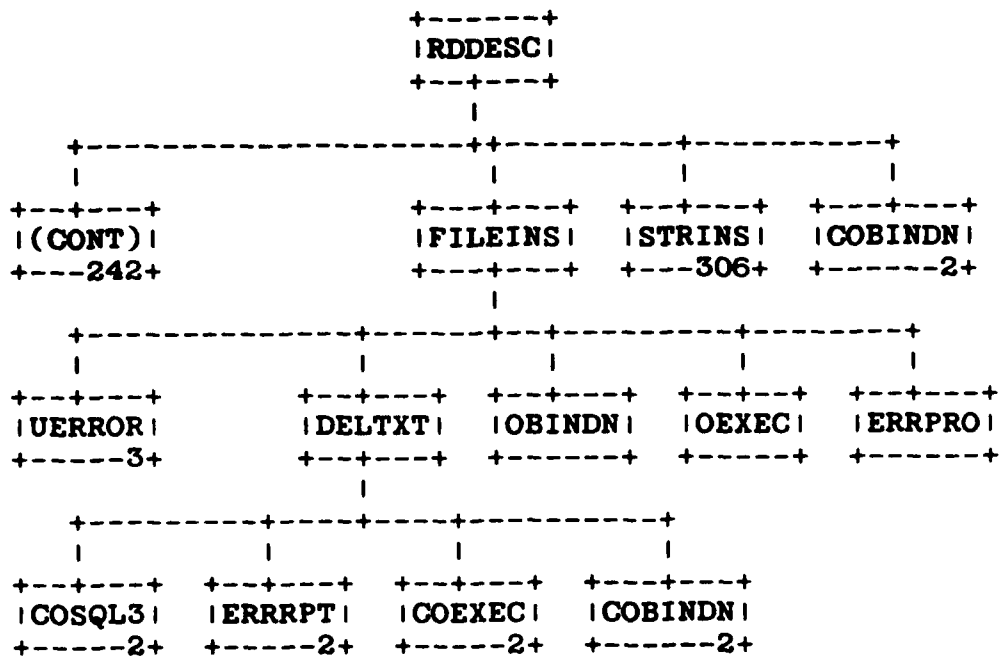
```
                    +-------+
                    |INSRSET|
                    +---+---+
                        |
        +---------+----+----+----------+
        |         |         |          |
    +--+---+  +--+---+  +--+---+  +---+---+
    |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
    +-----2+  +-----2+  +-----2+  +------2+
```

253

```
                      +------+
                      |INSDSL|
                      +--+---+
                         |
      +----------+-----+----+----+----------+
      |          |          |          |
  +--+---+    +--+---+   +--+---+   +---+---+
  |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
  +-----2+    +-----2+   +-----2+   +------2+
```

254

```
                        +-------+
                        |SELIAUC|
                        +---+---+
                            |
        +----------+--------+---------+----------+
        |          |        |         |          |
     +--+---+   +---+---+ +--+---+  +---+---+  +---+---+
     |(CONT)|   |STRNCPY| |COEXEC|  |COBINDN|  |CODFINN|
     +---213+   +-------+ +-----2+  +------2+  +----102+
```

```
                        +------+
                        |DEPATT|
                        +--+---+
                           |
         +----------+----------+----------+----------+
         |          |          |          |          |
     +--+---+   +---+---+   +--+---+   +---+---+   +--+---+
     |(CONT)|   |GENDESC|   |GENATT|   |STRNCPY|   |(CONT)|
     +---217+   +----146+   +---116+   +-------+   +---294+
```

256

```
                        +------+
                        |DEPREL|
                        +--+---+
                           |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
    |COSQL3|  |ERRRPT|  |BLRCKC1| |COFETCH| |(CONT)|
    +-----2+  +-----2+  +---+---+  +----44+  +--295+
                           |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
    |INITRDL| |COSQL3|  |ERRRPT|  |COFETCH| |(CONT)|
    +------+  +-----2+  +-----2+  +----44+  +--296+
```

3-1372

```
                        +-------+
                        |DPKCLST|
                        +---+---+
                            |
     +----------+----------+----------+----------+
     |          |          |          |          |
  +--+---+   +---+---+   +--+---+   +---+---+   +---+---+
  |(CONT)|   |STRNCPY|   |COEXEC|   |COBINDN|   |CODFINN|
  +---218+   +-------+   +-----2+   +------2+   +----102+
```

```
                              +------+
                              |DEPENT|
                              +--+---+
                                 |
        +----------+---------+---+---+---------+----------+
        |          |             |            |          |
    +--+---+   +---+---+     +--+---+     +--+---+   +---+---+   +---+---+
    |(CONT)|   |STRNCPY|     |GENALI|     |COEXEC|   |COBINDN|   |CODFINN|
    +---219+   +-------+     +---151+     +-----2+   +------2+   +----102+
```

```
                            +------+
                            |ALLKEY|
                            +--+---+
                               |
       +-----------------------+--+---------+---------+
       |                          |         |         |
   +--+---+                   +---+---+  +--+---+  +--+---+
   |CHKOWN|                   |GENALT1|  |CHKINH|  |ERRPRO|
   +--+---+                   +---+---+  +------+  +------+
      |                           |
   +---+---+         +------------+----------+
   |       |         |            |          |
+--+---+ +--+---+ +--+---+  +---+---+   +---+---+
|NEXTKC| |UERROR| |NEXTKC|  |ADDPARM|   |NEXTKCM|
+---148+ +-----3+ +---148+  +-----58+   +----148+
```

3-1375

```
                              +-------+
                              |SMVIEW |
                              +--+----+
                                 |
        +-----------+--------+---++--------+--------+
        |           |        |            |        |
     +--+---+    +--+---+  +--+---+   +--+--+   +--+---+
     |GETDOM|    |UERROR|  |VERSDT|   |INSDI|   |INSPDI|
     +--+---+    +-----3+  +----48+   +--262+   +---225+
        |
        |
        |
     +--+---+
     |ERRPRO|
     +------+
```

```
                          +-------+
                          |CHKDOMS|
                          +---+---+
                              |
        +---------+---------+---+-----+--------+---------+
        |         |         |         |        |         |
    +--+---+  +--+---+  +--+---+  +--+--+  +--+---+  +--+---+
    |GETDOM|  |UERROR|  |VERDTD|  |INSDI|  |INSPDI|  |VERSDT|
    +---260+  +-----3+  +----49+  +--262+  +---225+  +----48+
```

```
                              +-----+
                              |INSDI|
                              +--+--+
                                 |
        +----------+---------++---------+---------+
        |          |         |          |         |
    +---+---+  +---+---+  +--+---+   +--+---+   +--+---+
    |GETNNUM|  |SPRINTF|  |UERROR|   |COSQL3|   |(CONT)|
    +----126+  +-------+  +-----3+   +-----2+   +---297+
```

```
                        +-------+
                        |INSAREA|
                        +---+---+
                            |
        +----------+--------+----+---------+
        |          |             |         |
    +---+---+  +---+---+     +---+---+  +---+---+
    |COSQL3 |  |ERRRPT |     |COEXEC |  |COBINDN|
    +-----2+  +-----2+      +-----2+   +------2+
```

```
                        +------+
                        |INSPSB|
                        +--+---+
                           |
        +------------+-----+-----+------------+
        |            |           |            |
     +--+---+     +--+---+    +--+---+     +---+---+
     |COSQL3|     |ERRRPT|    |COEXEC|     |COBINDN|
     +-----2+     +-----2+    +-----2+     +------2+
```

```
                    +------+
                    |DEFIMS|
                    +--+---+
                       |
        +-----------+--+--------+
        |              |        |
     +--+---+       +--+---+  +--+---+
     |(CONT)|       |INSPCB|  |ERRPRO|
     +---231+       +--+---+  +------+
                       |
        +----------+----+----+----------+
        |          |         |          |
     +--+---+   +--+---+  +--+---+   +---+---+
     |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
     +-----2+   +-----2+  +-----2+   +------2+
```

```
                         +-------+
                         |DEFCODL|
                         +---+---+
                             |
         +-----------+----+----+---------+
         |           |         |         |
     +--+---+    +--+--+    +---+---+   +--+---+
     |(CONT)|    |UWARN|    |INSAREA|   |ERRPRO|
     +---232+    +----7+    +----263+   +------+
```

```
                          +------+
                          |DEFFLD|
                          +--+---+
                             |
       +----------------+-+-------+---------+
       |                |         |         |
   +--+---+         +---+---+  +--+---+  +--+---+
   |(CONT)|         |INSSDFL|  |CPFNXT|  |ERRPRO|
   +---235+         +---+---+  +----16+  +------+
                        |
       +---------+----+----+----------+
       |         |         |          |
   +--+---+  +--+---+   +--+---+   +---+---+
   |COSQL3|  |ERRRPT|   |COEXEC|   |COBINDN|
   +-----2+  +-----2+   +-----2+   +------2+
```

```
                            +-------+
                            |INSDFLD|
                            +---+---+
                                |
        +---------------+----+----+----------+
        |               |         |          |
    +--+---+        +--+---+   +--+---+   +---+---+
    |(CONT)|        |ERRRPT|   |COEXEC|   |COBINDN|
    +---235+        +-----2+   +-----2+   +------2+
```

```
                    +--------+
                    | INSRKEY |
                    +---+---+
                        |
        +---------+----+----+----------+
        |         |         |          |
    +--+---+   +--+---+   +--+---+   +---+---+
    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+   +-----2+   +-----2+   +------2+
```

270

```
                                    +------+
                                    |DEFKEY|
                                    +--+---+
                                       |
       +----------+----------+-------+----+--------+---------+
       |          |          |       |            |         |
    +--+---+   +--+---+   +--+---+  +--+---+   +--+---+   +--+---+
    |(CONT)|   |CPFVAL|   |CPFNXT|  |VERRKM|   |INSRKM|   |ERRPRO|
    +---236+   +------+   +----16+  +--+---+   +--298+    +------+
                                       |
                                       |
                                       |
                                    +--+---+
                                    |ERRPRO|
                                    +------+
```

```
                        +-------+
                        |DELDBDF|
                        +---+---+
                            |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +---+---+ +--+---+  +---+---+ +---+---+ +--+---+
    |DELDFL3| |UERROR|  |ADDRNUM| |DELTEXT| |ERRPRO|
    +----356+ +-----3+  +----355+ +----373+ +------+
```

```
                        +-------+
                        |DELDBST|
                        +---+---+
                            |
        +---------+---------+---------+---------+
        |         |         |         |         |
    +---+---+ +--+---+  +---+---+  +---+---+  +--+---+
    |DELRST2| |UERROR|  |ADDRNUM|  |DELTEXT|  |ERRPRO|
    +----275+ +-----3+  +----355+  +----373+  +------+
```

```
                              +-----+
                              |DRPDB|
                              +--+--+
                                 |
         +----------+----------++----------+----------+
         |          |           |          |          |
      +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
      |(CONT)|   |DELSTM1|   |DELRKY1|   |DELRKM1|   |(CONT)|
      +---239+   +----299+   +----300+   +---+---+   +---301+
                                             |
                             +----------+----+----+----------+
                             |          |         |          |
                          +--+---+   +--+---+   +--+---+   +---+---+
                          |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                          +-----2+   +-----2+   +-----2+   +------2+
```

```
                            +------+
                            |DRPFLD|
                            +--+---+
                               |
        +----------+--------++---------+---------+
        |          |        |          |         |
    +--+---+   +---+---+  +---+---+  +---+---+  +--+---+
    |(CONT)|   |DELDSL3|  |DELSTM3|  |DELRST3|  |(CONT)|
    +---240+   +----302+  +----303+  +---+---+  +---304+
                                         |
                         +----------+----+----+----------+
                         |          |         |          |
                     +--+---+   +--+---+  +--+---+   +---+---+
                     |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
                     +-----2+   +-----2+  +-----2+   +------2+
```

```
                    +-------+
                    |DELRST2|
                    +---+---+
                        |
        +---------+-----+----+----------+
        |         |          |          |
     +--+---+  +--+---+   +--+---+   +---+---+
     |COSQL3|  |ERRRPT|   |COEXEC|   |COBINDN|
     +-----2+  +-----2+   +-----2+   +------2+
```

3-1391

276

```
                        +------+
                        |DRPSET|
                        +--+---+
                           |
      +---------+---------+----+-----+---------+---------+
      |         |         |          |         |         |
   +--+---+  +--+---+  +--+---+  +---+---+  +---+---+  +--+---+
   |(CONT)|  |DELRBR2| |DLDSL2|  |ADDRNUM|  |DELTEXT|  |ERRPRO|
   +---241+  +----305+ +--+---+  +----355+  +----373+  +------+
                          |
      +---------+----+----+---------+
      |         |         |         |
   +--+---+  +--+---+  +--+---+  +---+---+
   |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
   +-----2+  +-----2+  +-----2+  +------2+
```

```
                              +------+
                              |RDDESC|
                              +--+---+
                                 |
        +---------------------++--------+---------+
        |                     |         |         |
     +--+---+            +---+---+   +--+---+  +---+---+
     |(CONT)|            |FILEINS|   |STRINS|  |COBINDN|
     +---242+            +---+---+   +---306+  +------2+
                            |
        +-------------+-----+--+---------+--------+
        |             |        |         |        |
     +--+---+      +--+---+  +--+---+  +--+--+  +--+---+
     |UERROR|      |DELTXT|  |OBINDN|  |OEXEC|  |ERRPRO|
     +-----3+      +--+---+  +------+  +-----+  +------+
                      |
        +---------+-----+----+---------+
        |         |        |         |
     +--+---+  +--+---+  +--+---+  +---+---+
     |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
     +-----2+  +-----2+  +-----2+  +------2+
```

```
                        +------+
                        |DELOAC|
                        +--+---+
                           |
        +----------+----+----+------+----------+
        |          |         |                 |
    +--+---+   +--+---+   +--+---+          +--+---+
    |DELAUC|   |UERROR|   |DELOWAC|         |ERRPRO|
    +---307+   +-----3+   +---+---+         +------+
                              |
            +----------+----+----+----------+
            |          |         |          |
        +--+---+   +--+---+   +--+---+   +---+---+
        |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
        +-----2+   +-----2+   +-----2+   +------2+
```

```
                        +-----+
                        |DELAC|
                        +--+--+
                           |
        +---------+----+----+----------+
        |         |         |          |
   +--+---+   +--+---+   +--+---+   +---+---+
   |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
   +-----2+   +-----2+   +-----2+   +------2+
```

280

```
                              +------+
                              |DRPATT|
                              +--+---+
                                 |
      +----------+---------++----------+----------+
      |          |         ||          |          |
   +--+---+  +---+---+  +---+---+  +---+---+  +--+---+
   |(CONT)|  |DELACNM|  |DELACKW|  |DELTEXT|  |(CONT)|
   +---244+  +----308+  +---+---+  +----373+  +---309+
                            |
             +----------+----+----+----------+
             |          |         |          |
          +--+---+  +--+---+  +--+---+  +---+---+
          |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
          +-----2+  +-----2+  +-----2+  +------2+
```
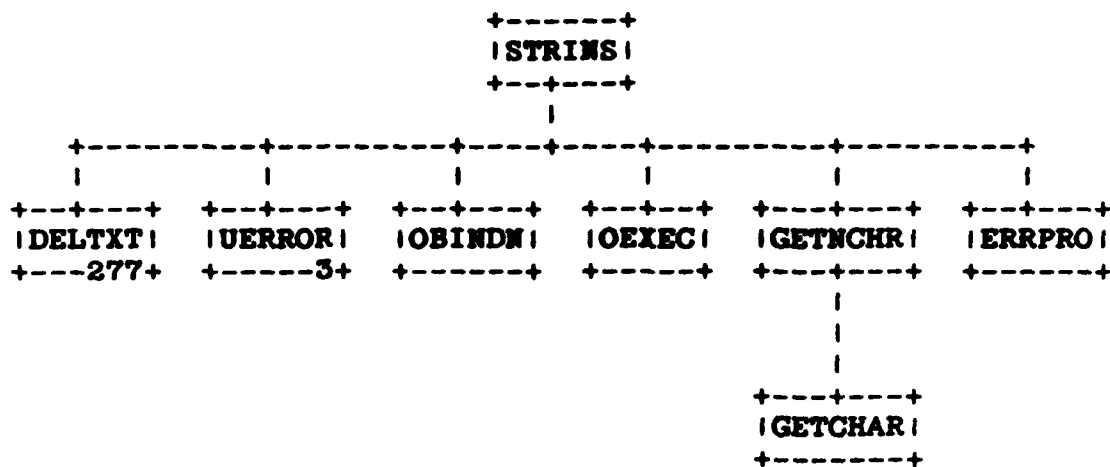
```
                          +------+
                          |DRPDOM|
                          +--+---+
                             |
        +----------+---------++---------+----------+
        |          |          |          |          |
    +--+---+    +---+---+   +---+---+   +--+---+   +--+---+
    |(CONT)|    |DOMUSAG|   |DELDTNO|   |DELDTD|   |(CONT)|
    +---245+    +----310+   +----311+   +--+---+   +---312+
                                           |
                     +---------+----+----+----------+
                     |         |         |          |
                 +--+---+   +--+---+   +--+---+   +---+---+
                 |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                 +-----2+   +-----2+   +-----2+   +------2+
```

```
                      +------+
                      |DRPAL |
                      +--+---+
                         |
          +-------------+-------------+
          |             |             |
      +--+---+      +---+---+     +---+---+
      |(CONT)|      |GETECAL|     |GETACAL|
      +---246+      +----313+     +---+---+
                                      |
                          +---------+---------+
                          |         |         |
                      +---+---+  +--+---+  +--+---+
                      |DELACAL|  |UERROR|  |ERRPRO|
                      +---+---+  +-----3+  +------+
                          |
          +---------+----+----+----------+
          |         |         |          |
      +--+---+  +--+---+  +--+---+  +---+---+
      |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
      +-----2+  +-----2+  +-----2+  +------2+
```
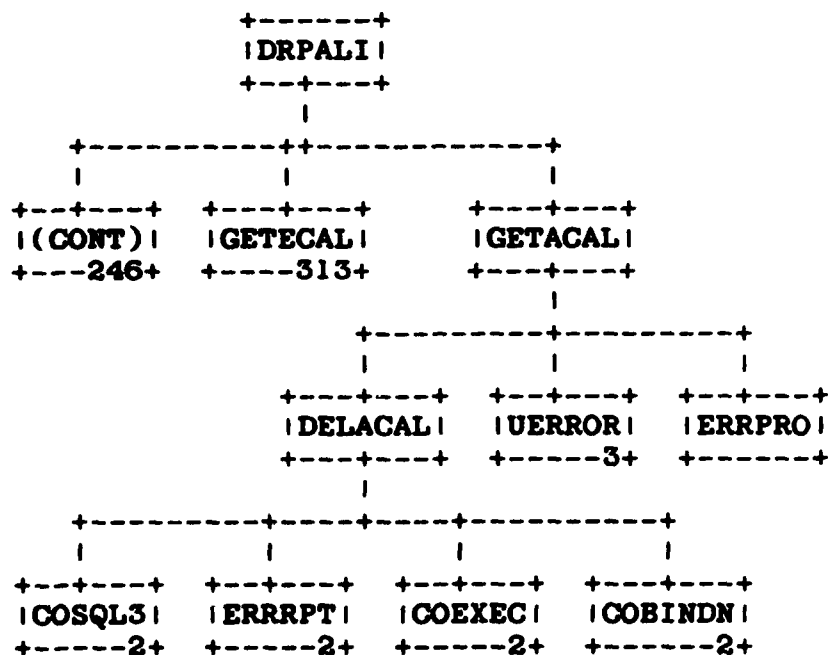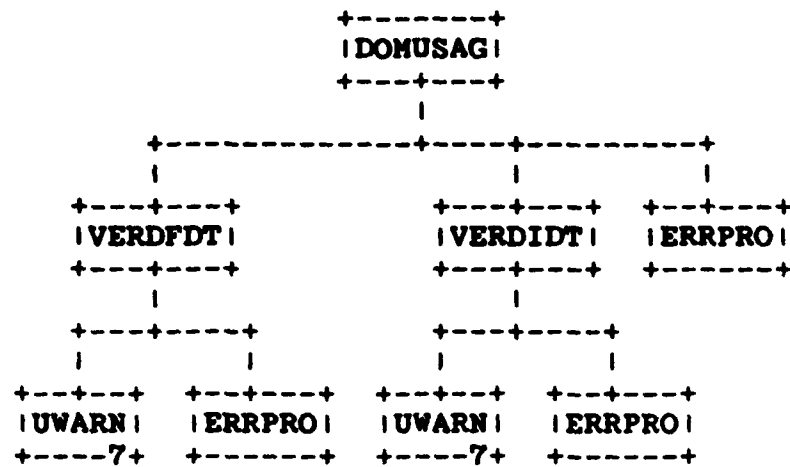
```
                        +-------+
                        |DRPVIEW|
                        +---+---+
                            |
      +----------+---------+---+----+---------+---------+
      |          |             |        |         |         |
   +--+---+   +---+---+   +--+---+   +--+---+   +--+---+   +--+---+
   |(CONT)|   |DELSECR|   |DRPDIV|   |DELDIV|   |DELSEC|   |(CONT)|
   +---247+   +----314+   +--+---+   +---315+   +----316+  +---317+
                             |
                   +--------++--------+
                   |          |         |
               +---+---+  +---+---+  +--+---+
               |DELTEXT|  |ADDRNUM|  |ERRPRO|
               +----373+  +----355+  +------+
```

284

```
                              +------+
                              |DRPKWC|
                              +--+---+
                                 |
    +---------+----------+-----+----+----------+---------+
    |         |          |          |          |         |
+--+---+  +--+--+   +--+---+   +---+---+   +---+---+  +--+---+
|CPFONE|  |VERKW|   |UERROR|   |DELKWAC|   |DELKWEC|  |(CONT)|
+----12+  +--+--+   +-----3+   +----318+   +----319+  +---320+
             |
             |
             |
          +--+---+
          |ERRPRO|
          +------+
```

```
                              +------+
                              |DRPMAP|
                              +--+---+
                                 |
        +---------+---------++---------+---------+
        |         |         |         |         |
     +--+---+  +--+---+  +---+---+  +--+---+  +--+---+
     |CPFONE|  |VERENT|  |SPRINTF|  |UERROR|  |(CONT)|
     +----12+  +----14+  +-------+  +-----3+  +---321+
```

286

```
                              +------+
                              |DRPMOD|
                              +--+---+
                                 |
      +----------+---------+-----+----+----------+---------+
      |          |         |          |          |         |
  +--+---+   +--+---+   +--+---+   +--+---+   +---+---+   +--+---+
  |CPFONE|   |UERROR|   |VERMOD|   |DELMOD|   |DELTEXT|   |(CONT)|
  +----12+   +-----3+   +----21+   +--+---+   +----373+   +---322+
                                      |
                        +---------+---+----+----------+
                        |         |        |          |
                    +--+---+   +--+---+  +--+---+   +---+---+
                    |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
                    +-----2+   +-----2+  +-----2+   +------2+
```

```
                              +-------+
                              |BRANCHR|
                              +---+---+
                                  |
        +----------+---------++---------+---------+
        |          |         |          |         |
    +--+---+   +--+---+   +--+---+   +--+---+   +-+--+
    |(CONT)|   |DRPREL|   |MRGMOD|   |RENAME|   |HALT|
    +---248+   +---323+   +---324+   +---325+   +-+--+
                                                  |
                        +----------+----+-----+---------+
                        |          |          |         |
                    +--+---+   +---+---+   +---+---+   +--+---+
                    |CPFONE|   |STRNCMP|   |ROLBACK|   |COMMIT|
                    +----12+   +-------+   +------5+   +----10+
```

```
                    +------+
                    |FNDOAC|
                    +--+---+
                       |
          +------------+---------+
          |            |         |
      +--+---+     +--+---+   +--+---+
      |DELOAC|     |UERROR|   |ERRPRO|
      +---278+     +-----3+   +------+
```

289

```
                          +------+
                          |DRPENT|
                          +--+---+
                             |
      +----------+--------+---------+---------+
      |          |        |         |         |
   +--+---+   +---+---+  +--+---+  +---+---+  +--+---+
   |(CONT)|   |DELMTKC|  |DRPRCE|  |DELECNM|  |(CONT)|
   +---248+   +-----44+  +---326+  +---+---+  +---327+
                                      |
                    +---------+-----+---------+---------+
                    |         |         |             |
                 +--+---+  +--+---+  +--+---+     +---+---+
                 |COSQL3|  |ERRRPT|  |COEXEC|     |COBINDN|
                 +-----2+  +-----2+  +-----2+     +------2+
```

```
                        +-----+
                        |DRPDF|
                        +--+--+
                           |
        +---------+----+----+---------+
        |         |         |         |
     +--+---+  +--+---+  +--+---+  +---+---+
     |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
     +-----2+  +-----2+  +-----2+  +------2+
```

```
                        +-------+
                        |DELDFL2|
                        +---+---+
                            |
        +-----------+-----------+-----------+-----------+
        |           |           |           |           |
    +--+---+    +---+---+    +--+---+    +---+---+    +---+---+
    |(CONT)|    |ADDRNUM|    |COEXEC|    |COBINDN|    |CODFINN|
    +---250+    +----355+    +-----2+    +------2+    +----102+
```

```
                        +------+
                        |PDFREC|
                        +--+---+
                           |
        +----------+---+-----+---------+
        |          |         |         |
    +---+---+  +---+---+  +--+---+  +--+---+
    |DELPDFT|  |DEL1PDF|  |UERROR|  |ERRPRO|
    +----343+  +----371+  +-----3+  +------+
```

293

```
                            +------+
                            |DRPREC|
                            +--+---+
                               |
       +---------+---------+----+----+---------+---------+
       |         |         |         |         |         |
    +--+---+  +---+---+  +---+---+  +---+---+  +---+---+  +--+---+
    |(CONT)|  |DELISS2|  |DELSDF2|  |DELDSL2|  |SELRSET|  |SELSTM|
    +---251+  +----328+  +----329+  +---+---+  +----330+  +---331+
                                        |
                          +---------+----+----+----------+
                          |         |         |          |
                       +--+---+  +--+---+  +--+---+  +---+---+
                       |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
                       +-----2+  +-----2+  +-----2+  +------2+
```

3-1409

294

```
                        +------+
                        |DEPATT|
                        +--+---+
                           |
        +---------+--------++--------+----------+
        |         |         |         |         |
    +--+---+  +--+---+  +--+---+  +---+---+  +---+---+
    |(CONT)|  |GENALI|  |COEXEC|  |COBINDN|  |CODFINN|
    +---255+  +---151+  +-----2+  +------2+  +----102+
```

```
                         +------+
                         |DEPREL|
                         +--+---+
                            |
       +----------+---------+----------+----------+
       |          |         |          |          |
    +--+---+   +---+---+  +--+---+  +---+---+   +--+---+
    |(CONT)|   |SELECNM|  |GENREL|  |GENDESC|   |(CONT)|
    +---256+   +----147+  +---193+  +----146+   +---332+
```

```
                        +-------+
                        |BLRCKC1|
                        +---+---+
                            |
        +-----------+-----------+-----------+-----------+
        |           |           |           |           |
    +--+---+    +---+---+    +--+---+    +---+---+    +---+---+
    |(CONT)|    |ADDRCEC|    |COEXEC|    |COBINDN|    |CODFINN|
    +---256+    +----223+    +-----2+    +------2+    +----102+
```

```
                         +-----+
                         |INSDI|
                         +--+--+
                            |
        +-----------+-------+-----+-----------+
        |           |             |           |
     +--+---+    +--+---+     +--+---+    +---+---+
     |(CONT)|    |ERRRPT|     |COEXEC|    |COBINDN|
     +---262+    +-----2+     +-----2+    +------2+
```

```
                        +-------+
                        | INSRKM |
                        +--+---+
                           |
        +----------+---+----+----+----------+
        |          |         |         |
    +--+---+    +--+---+    +--+---+    +---+---+
    |COSQL3 |   |ERRRPT |   |COEXEC |   |COBINDN |
    +-----2+    +-----2+    +-----2+    +------2+
```

```
                      +-------+
                      |DELSTM1|
                      +---+---+
                          |
            +---------+----+----+----------+
            |         |         |          |
        +--+---+  +--+---+  +--+---+   +---+---+
        |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
        +-----2+  +-----2+  +-----2+   +------2+
```

```
                        +-------+
                        |DELRKY1|
                        +---+---+
                            |
        +-----------+----+----+----------+
        |           |         |          |
     +--+---+    +--+---+   +--+---+   +---+---+
     |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
     +-----2+    +-----2+   +-----2+   +------2+
```

301

```
                              +-----+
                              |DRPDB|
                              +--+--+
                                 |
        +----------+---------++---------+---------+
        |          |          |         |         |
     +--+---+   +---+---+   +---+---+  +---+---+  +--+---+
     |(CONT)|   |DELASM1|   |DELRBR1|  |DELISS1|  |(CONT)|
     +---273+   +----333+   +----334+  +---+---+  +---335+
                                           |
                       +---------+----+----+----------+
                       |              |         |          |
                    +--+---+       +--+---+   +--+---+   +---+---+
                    |COSQL3|       |ERRRPT|   |COEXEC|   |COBINDN|
                    +-----2+       +-----2+   +-----2+   +------2+
```

```
                        +--------+
                        |DELDSL3 |
                        +---+---+
                            |
        +----------+----+----+---------+
        |          |         |         |
    +--+---+    +--+---+   +--+---+  +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|  |COBINDN|
    +-----2+    +-----2+   +-----2+  +------2+
```

```
                    +-------+
                    |DELSTM3|
                    +---+---+
                        |
      +-----------+-----+-----+-----------+
      |           |           |           |
   +--+---+    +--+---+    +--+---+    +---+---+
   |COSQL3|    |ERRRPT|    |COEXEC|    |COBINDN|
   +-----2+    +-----2+    +-----2+    +------2+
```

```
                        +------+
                        |DRPFLD|
                        +--+---+
                           |
        +----------+----------++----------+----------+
        |          |          |           |          |
     +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
     |(CONT)|   |DELASM2|   |DELRBR3|   |DELSDF3|   |(CONT)|
     +--274+    +----336+   +----337+   +---+---+   +---338+
                                            |
                        +----------+----+----+----------+
                        |          |         |          |
                     +--+---+   +--+---+   +--+---+   +---+---+
                     |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
                     +-----2+   +-----2+   +-----2+   +------2+
```

```
                    +-------+
                    |DELRBR2|
                    +---+---+
                        |
        +----------+----+----+----------+
        |          |         |          |
    +--+---+   +--+---+   +--+---+   +---+---+
    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+   +-----2+   +-----2+   +------2+
```

306

```
                          +------+
                          |STRINS|
                          +--+---+
                             |
     +---------+---------+---+-----+---------+--------+
     |         |         |         |         |        |
 +--+---+  +--+---+  +--+---+  +--+--+  +---+---+  +--+---+
 |DELTXT|  |UERROR|  |OBINDN|  |OEXEC|  |GETNCHR|  |ERRPRO|
 +---277+  +-----3+  +------+  +-----+  +---+---+  +------+
                                           |
                                           |
                                           |
                                       +---+---+
                                       |GETCHAR|
                                       +-------+
```

```
                              +------+
                              |DELAUC|
                              +--+---+
                                 |
         +----------+----------+----------+----------+
         |          |          |          |          |
     +---+---+  +---+---+  +--+---+  +---+---+  +--+---+
     |DELIAUC|  |SPRINTF|  |UERROR|  |ADDRNUM|  |(CONT)|
     +----339+  +-------+  +-----3+  +----355+  +---340+
```

```
                        +-------+
                        |DELACNM|
                        +---+---+
                            |
          +---------+-------+---+----+-----------+
          |             |          |            |
       +--+---+     +--+---+    +--+---+     +---+---+
       |COSQL3|     |ERRRPT|    |COEXEC|     |COBINDN|
       +-----2+     +-----2+    +-----2+     +------2+
```

```
                            +------+
                            |DRPATT|
                            +--+---+
                               |
      +-----------+---------++---------+---------+
      |           |         |          |         |
   +--+---+    +--+---+   +--+---+   +--+---+   +--+---+
   |(CONT)|    |ADDRNUM|  |UERROR|   |CPFNXT|   |ERRPRO|
   +---280+    +----355+  +-----3+   +----16+   +------+
```

310

```
                        +-------+
                        |DOMUSAG|
                        +---+---+
                            |
          +------------+----+--------+
          |                 |        |
      +---+---+         +---+---+  +--+---+
      |VERDFDT|         |VERDIDT|  |ERRPRO|
      +---+---+         +---+---+  +------+
          |                 |
      +---+----+        +---+----+
      |        |        |        |
   +--+--+ +--+---+  +--+--+ +--+---+
   |UWARN| |ERRPRO|  |UWARN| |ERRPRO|
   +----7+ +------+  +----7+ +------+
```

311

```
            +-------+
            |DELDTNO|
            +---+---+
                |
    +----------+--+-----+---------+
    |          |        |         |
+---+---+  +---+---+  +--+---+  +--+---+
|ADDRNUM|  |DELTEXT|  |UERROR|  |ERRPRO|
+----355+  +----373+  +-----3+  +------+
```

312

```
                                    +------+
                                    |DRPDOM|
                                    +--+---+
                                       |
        +--------------+-------+--+---------+----------+
        |              |          |         |          |
     +--+---+      +--+---+   +---+---+  +---+---+  +--+---+
     |(CONT)|      |DELDOM|   |ADDRNUM|  |DELTEXT|  |CPFNXT|
     +---281+      +--+---+   +----355+  +----373+  +----16+
                      |
          +---------+----+----+----------+
          |         |         |          |
       +--+---+  +--+---+   +--+---+  +---+---+
       |COSQL3|  |ERRRPT|   |COEXEC|  |COBINDN|
       +-----2+  +-----2+   +-----2+  +------2+
```

```
                        +-------+
                        |GETECAL|
                        +--+--+-+
                           |
              +----------+----------+
              |          |          |
          +---+---+  +--+---+   +--+---+
          |DELECAL|  |UERROR|   |ERRPRO|
          +---+---+  +-----3+   +------+
              |
     +----------+----+----+----------+
     |          |         |          |
 +--+---+   +--+---+  +--+---+   +---+---+
 |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
 +-----2+   +-----2+  +-----2+   +------2+
```
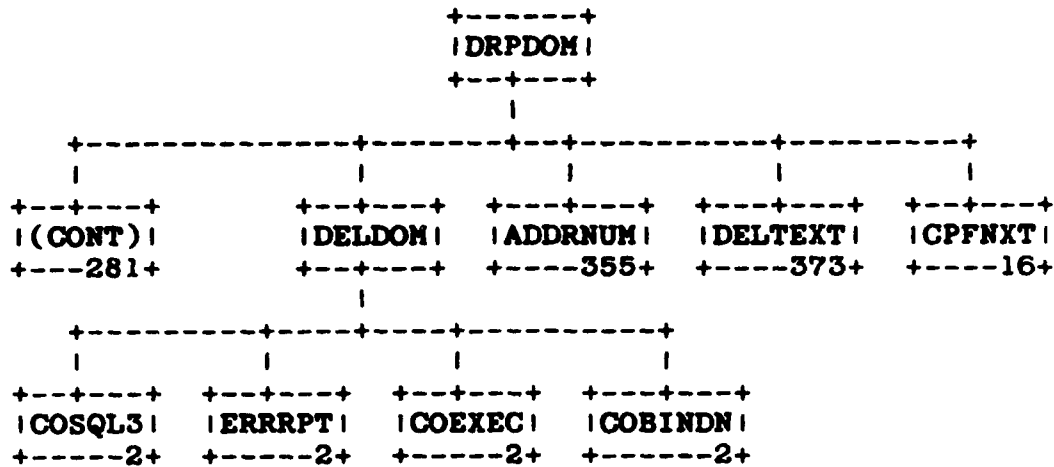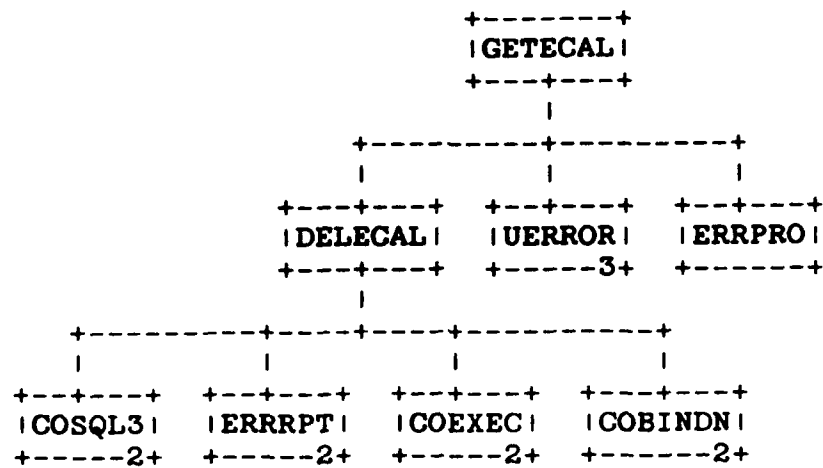
```
                    +-------+
                    |DELSECR|
                    +---+---+
                        |
     +----------+-------+----+-----------+
     |          |            |           |
  +--+---+   +--+---+     +--+---+   +---+---+
  |COSQL3|   |ERRRPT|     |COEXEC|   |COBINDN|
  +-----2+   +-----2+     +-----2+   +------2+
```

315

```
              +------+
              |DELDIV|
              +--+---+
                 |
   +---------+----+----+-----------+
   |         |         |           |
+--+---+  +--+---+  +--+---+   +---+---+
|COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
+-----2+  +-----2+  +-----2+   +------2+
```

316

```
                          +------+
                          |DELSEC|
                          +--+---+
                             |
      +-----------+-----+----+-----+----------+
      |           |          |                |
   +--+---+    +--+---+    +--+---+      +---+---+
   |COSQL3|    |ERRRPT|    |COEXEC|      |COBINDN|
   +-----2+    +-----2+    +-----2+      +------2+
```

```
                        +-------+
                        |DRPVIEW|
                        +---+---+
                            |
        +------------+----+-----+---------+
        |                 |          |         |
    +--+---+        +---+---+    +---+---+   +--+---+
    |(CONT)|        |ADDRNUM|    |DELTEXT|   |CPFNXT|
    +---283+        +----355+    +----373+   +----16+
```

```
                        +-------+
                        |DELKVAC|
                        +---+---+
                            |
        +-----------+-------+-----+-----------+
        |           |             |           |
    +--+---+    +--+---+      +--+---+    +---+---+
    |COSQL3|    |ERRRPT|      |COEXEC|    |COBINDN|
    +-----2+    +-----2+      +-----2+    +------2+
```
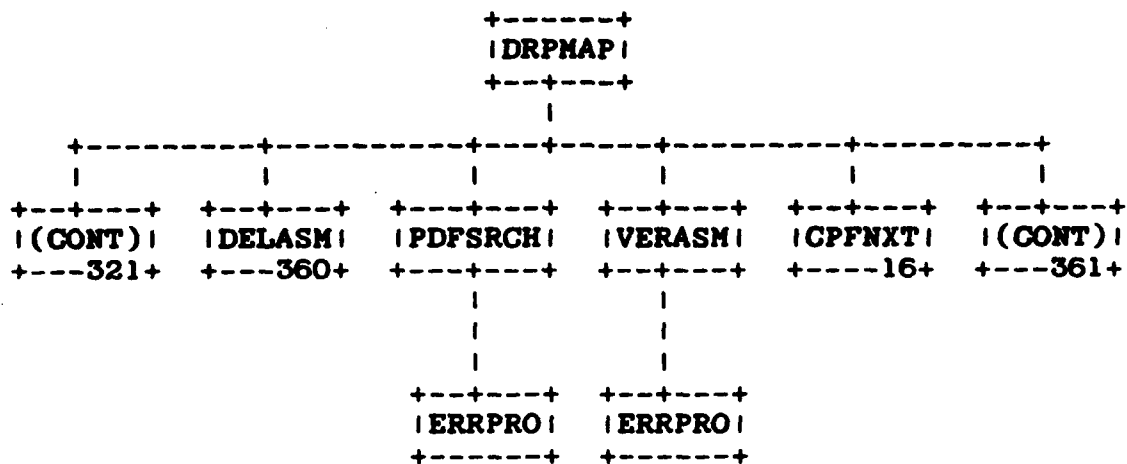
```
                    +-------+
                    |DELKWEC|
                    +---+---+
                        |
        +-----------+---+---+-----------+
        |           |       |           |
    +--+---+    +--+---+  +--+---+   +---+---+
    |COSQL3|    |ERRRPT|  |COEXEC|   |COBINDN|
    +-----2+    +-----2+  +-----2+   +------2+
```

320

```
                              +------+
                              |DRPKWC|
                              +--+---+
                                 |
       +-----------+---------+-----+----+-----------+---------+
       |           |         |          |           |         |
    +--+---+    +---+---+  +--+--+   +---+---+    +---+---+  +--+---+
    |(CONT)|    |DELKWRC|  |DELKW|   |DELTEXT|    |ADDRNUM|  |CPFNXT|
    +---284+    +----341+  +--+--+   +----373+    +----355+  +----16+
                              |
           +---------+----+----+----------+
           |         |         |          |
        +--+---+  +--+---+  +--+---+   +---+---+
        |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
        +-----2+  +-----2+  +-----2+   +------2+
```

3-1436

```
                            +------+
                            |DRPMAP|
                            +--+---+
                               |
       +----------+----------++----------+---------+
       |          |          |           |         |
   +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
   |(CONT)|   |DELRCST|   |VERRCST|   |DELPDFT|   |(CONT)|
   +---285+   +----342+   +---+---+   +----343+   +---344+
                              |
                              |
                              |
                          +--+---+
                          |ERRPRO|
                          +------+
```

```
                          +------+
                          |DRPMOD|
                          +--+---+
                             |
      +---------+---------+----+-----+---------+--------+
      |         |         |          |         |        |
   +--+---+  +--+--+   +--+---+   +---+---+  +--+--+  +--+---+
   |(CONT)|  |FNDECM|  |FNDACM|   |ADDRNUM|  |UWARN|  |ERRPRO|
   +---286+  +---345+  +---346+   +----355+  +----7+  +------+
```

```
                              +------+
                              |DRPREL|
                              +--+---+
                                 |
        +----------+----------+----+----+----------+----------+
        |          |          |         |          |          |
    +--+---+   +--+---+   +--+---+   +--+--+   +--+---+   +--+---+
    |CPFONE|   |CPFNXT|   |VERREL|   |UERROR|  |VERRCC|   |(CONT)|
    +----12+   +----16+   +----80+   +-----3+  +--+---+   +---347+
                                                  |
                                                  |
                                                  |
                                              +--+---+
                                              |ERRPRO|
                                              +------+
```

324
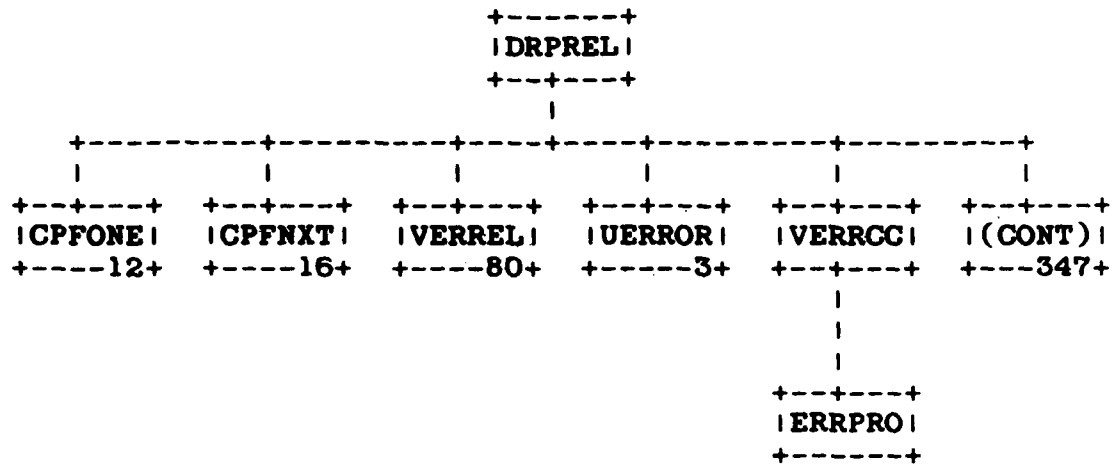
```
                              +------+
                              |MRGMOD|
                              +--+---+
                                 |
      +---------+---------+---------+----+----+---------+---------+
      |         |         |         |         |         |         |
   +--+---+  +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
   |CPFONE|  |CPFNXT|  |EXCFLAG|  |VERMOD|  |UERROR|  |(CONT)|
   +----12+  +----16+  +-----37+  +----21+  +-----3+  +---348+
```

```
                          +------+
                          |RENAME|
                          +--+---+
                             |
      +---------+---------+---+----+---------+--------+
      |         |         |        |         |        |
   +--+---+  +--+---+  +--+---+  +--+---+  +--+--+  +--+---+
   |CPFONE|  |LOWUPP|  |VERENT|  |VERATT|  |VERKW|  |(CONT)|
   +----12+  +----12+  +----14+  +----13+  +--284+  +---349+
```

```
                              +------+
                              |DRPRCE|
                              +--+---+
                                 |
          +---------+---------+---------+---------+
          |         |         |         |         |
       +--+--+  +---+---+  +---+---+  +---+---+  +--+---+
       |DELRC|  |ADDRNUM|  |DELTEXT|  |DELRCKW|  |ERRPRO|
       +--347+  +----355+  +----373+  +----367+  +------+
```

```
                              +------+
                              |DRPENT|
                              +--+---+
                                 |
        +----------+----------+----+----+----------+---------+
        |          |          |         |          |         |
   +--+---+   +---+---+   +--+--+   +---+---+   +---+---+   +--+---+
   |(CONT)|   |DELECKW|   |DELEC|   |ADDRNUM|   |DELTEXT|   |CPFNXT|
   +---289+   +----350+   +--+--+   +----355+   +----373+   +----16+
                             |
           +----------+----+----+----------+
           |          |         |          |
      +--+---+   +--+---+   +--+---+   +---+---+
      |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
      +-----2+   +-----2+   +-----2+   +------2+
```

```
                        +-------+
                        |DELISS2|
                        +---+---+
                            |
        +-----------+----+----+----------+
        |           |         |          |
    +--+---+    +--+---+   +--+---+   +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+    +-----2+   +-----2+   +------2+
```

```
                    +-------+
                    |DELSDF2|
                    +---+---+
                        |
        +-----------+----+----+-----------+
        |           |         |           |
    +--+---+    +--+---+   +--+---+   +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+    +-----2+   +-----2+   +------2+
```

```
                          +--------+
                          |SELRSET |
                          +---+----+
                              |
        +----------+----------+----------+----------+
        |          |          |          |          |
   +---+---+   +--+---+   +---+---+   +---+---+   +--+---+
   |DELRST2|   |UERROR|   |DELASM2|   |DELSTM2|   |(CONT)|
   +----275+   +-----3+   +----336+   +----241+   +---351+
```

331

```
                              +------+
                              |SELSTM|
                              +--+---+
                                 |
        +---------+----------+----------+---------+
        |         |          |          |         |
    +---+---+  +--+---+   +---+---+   +---+---+  +--+---+
    |DELRST2|  |UERROR|   |DELASM2|   |DELSTM2|  |(CONT)|
    +----275+  +-----3+   +----336+   +----241+  +---352+
```

```
                              +------+
                              |DEPREL|
                              +--+---+
                                 |
      +----------+----------+----+----+----------+----------+
      |          |          |         |          |          |
   +--+---+   +--+---+   +---+---+  +--+---+   +---+---+  +---+---+
   |(CONT)|   |ALLKEY|   |STRNCPY|  |COEXEC|   |COBINDN|  |CODFINN|
   +---295+   +---259+   +-------+  +-----2+   +------2+  +----102+
```

```
                        +-------+
                        |DELASM1|
                        +---+---+
                            |
         +---------------+-----+----+-----------+
         |               |          |           |
     +---+---+       +---+---+   +---+---+    +---+---+
     |COSQL3 |       |ERRRPT |   |COEXEC |    |COBINDN|
     +-----2+       +-----2+    +-----2+     +-----2+
```

```
                        +-------+
                        |DELRBR1|
                        +---+---+
                            |
        +-----------+-------+-------+-----------+
        |           |               |           |
    +---+---+   +---+---+       +---+---+   +---+---+
    |COSQL3 |   |ERRRPT |       |COEXEC |   |COBINDN|
    +-----2+   +-----2+       +-----2+   +-----2+
```

```
                              +-----+
                              |DRPDB|
                              +--+--+
                                 |
      +-----------+---------++-----------+---------+
      |           |          |           |         |
  +--+---+    +---+---+   +---+---+   +---+---+  +--+---+
  |(CONT)|    |DELDBA1|   |DELDSL1|   |DELSDF1|  |(CONT)|
  +---301+    +----353+   +----354+   +---+---+  +---355+
                                          |
               +----------+----+----+---------+
               |          |        |          |
           +--+---+   +--+---+  +--+---+  +---+---+
           |COSQL3|   |ERRRPT|  |COEXEC|  |COBINDN|
           +-----2+   +-----2+  +-----2+  +------2+
```

```
                        +--------+
                        |DELASM2 |
                        +---+---+
                            |
        +---------+----+----+----------+
        |         |         |          |
    +--+---+  +--+---+  +--+---+  +---+---+
    |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
    +-----2+  +-----2+  +-----2+  +------2+
```

```
                    +-------+
                    |DELRBR3|
                    +---+---+
                        |
        +-----------+----+----+----------+
        |           |         |          |
    +--+---+    +--+---+   +--+---+   +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+    +-----2+   +-----2+   +------2+
```

338

```
                              +------+
                              |DRPFLD|
                              +--+---+
                                 |
        +----------+---------+---++--------+--------+
        |          |         |   |         |        |
   +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
   |(CONT)|   |DELDFL3|   |DELRKM3|   |DELRKY2|   |(CONT)|
   +---304+   +----356+   +----357+   +---+---+   +---358+
                                          |
                        +---------+-----+----+---------+
                        |         |     |              |
                   +--+---+   +--+---+  +--+---+   +---+---+
                   |COSQL3|   |ERRRPT|  |COEXEC|   |COBINDN|
                   +-----2+   +-----2+  +-----2+   +------2+
```

```
                    +-------+
                    |DELIAUC|
                    +---+---+
                        |
      +----------+------+-----+----------+
      |          |            |          |
  +--+---+   +--+---+     +--+---+    +---+---+
  |COSQL3|   |ERRRPT|     |COEXEC|    |COBINDN|
  +-----2+   +-----2+     +-----2+    +------2+
```

340

```
                          +------+
                          |DELAUC|
                          +--+---+
                             |
        +----------+----+-----+----------+
        |          |          |          |
    +--+---+   +---+---+   +---+---+   +---+---+
    |(CONT)|   |DELTEXT|   |DELAUCL|   |DELAUCK|
    +---307+   +----373+   +---+---+   +----359+
                               |
             +---------+----+-----+----------+
             |         |          |          |
         +--+---+   +--+---+   +--+---+   +---+---+
         |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
         +-----2+   +-----2+   +-----2+   +------2+
```

```
                    +-------+
                    |DELKWRC|
                    +---+---+
                        |
        +-----------+----+----+-----------+
        |           |         |           |
    +--+---+    +--+---+   +--+---+    +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|    |COBINDN|
    +-----2+    +-----2+   +-----2+    +------2+
```

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

```
                          +-------+
                          |DELRCST|
                          +---+---+
                              |
       +------------+----+----+----------+
       |            |         |          |
   +--+---+     +--+---+   +--+---+   +---+---+
   |COSQL3|     |ERRRPT|   |COEXEC|   |COBINDN|
   +-----2+     +-----2+   +-----2+   +------2+
```

343

```
                  +-------+
                  |DELPDFT|
                  +---+---+
                      |
      +-----------+----+----+-----------+
      |           |         |           |
  +--+---+    +--+---+   +--+---+    +---+---+
  |COSQL3|    |ERRRPT|   |COEXEC|    |COBINDN|
  +-----2+    +-----2+   +-----2+    +------2+
```

```
                          +------+
                          |DRPMAP|
                          +--+---+
                             |
      +---------+---------+---+----+---------+---------+
      |         |         |        |         |         |
   +--+---+  +--+---+  +---+---+  +--+---+  +--+---+  +--+---+
   |(CONT)|  |DELASM|  |PDFSRCH|  |VERASM|  |CPFNXT|  |(CONT)|
   +---321+  +---360+  +---+---+  +--+---+  +----16+  +---361+
                           |         |
                           |         |
                           |         |
                        +--+---+  +--+---+
                        |ERRPRO|  |ERRPRO|
                        +------+  +------+
```

345

```
                        +------+
                        |FNDECM|
                        +--+---+
                           |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +---+---+  +--+--+   +---+---+  +---+---+  +--+---+
    |DELOACE|  |DELEC|   |DELECKW|  |DELTEXT|  |(CONT)|
    +----362+  +--327+   +----350+  +----373+  +---363+
```

```
                              +------+
                              |FNDACM|
                              +--+---+
                                 |
        +----------+-----------+-----------+----------+
        |          |           |           |          |
     +--+--+    +--+---+    +---+---+    +---+---+   +--+---+
     |DELAC|    |DELACKW|   |DELTEXT|    |DELACNM|   |(CONT)|
     +--279+    +----280+   +----373+    +----308+   +---364+
```

347

```
                          +------+
                          |DRPREL|
                          +--+---+
                             |
         +----------+--------+-+---------+--------+
         |          |          |         |        |
     +--+---+   +---+---+   +---+---+  +--+--+  +--+---+
     |(CONT)|   |DRPMGRC|   |DELCPRC|  |DELRC|  |(CONT)|
     +---323+   +----365+   +----366+  +--+--+  +---367+
                                          |
                         +---------+----+----+---------+
                         |         |         |         |
                     +--+---+  +--+---+  +--+---+  +---+---+
                     |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
                     +-----2+  +-----2+  +-----2+  +------2+
```

3-1463

```
                        +------+
                        |MRGMOD|
                        +--+---+
                           |
        +----------+----------+----------+----------+
        |          |          |          |          |
    +--+---+   +--+---+   +---+---+   +---+---+   +--+---+
    |(CONT)|   |OPNFIL|   |ADDPARM|   |MRGMOD1|   |(CONT)|
    +---324+   +------+   +-----58+   +----368+   +---369+
```

```
                        +------+
                        |RENAME|
                        +--+---+
                           |
     +----------+---------+----+-----+---------+----------+
     |          |         |          |         |          |
  +--+---+   +--+---+   +--+---+   +---+---+   +--+---+  +--+---+
  |(CONT)|   |VERMOD|   |VERDOM|   |VERVIEW|   |RCCHEK|  |(CONT)|
  +---325+   +----21+   +----19+   +----133+   +--+---+  +---370+
                                                  |
                                          +----+----+
                                          |         |
                                       +--+---+  +--+---+
                                       |CPFNXT|  |VERREL|
                                       +----16+  +----80+
```

350

```
                    +-------+
                    |DELECKW|
                    +---+---+
                        |
      +----------+------+------+----------+
      |          |             |          |
  +---+---+  +---+---+     +---+---+   +---+---+
  |COSQL3 |  |ERRRPT |     |COEXEC |   |COBINDN|
  +-----2+  +-----2+      +-----2+    +-----2+
```

351

```
                         +-------+
                         |SELRSET|
                         +---+---+
                             |
      +----------+---------++----------+---------+
      |          |         |           |         |
   +--+---+   +---+---+  +---+---+   +---+---+  +--+---+
   |(CONT)|   |DELRBR2|  |DELTEXT|   |ADDRNUM|  |ERRPRO|
   +---330+   +----305+  +----373+   +----355+  +------+
```

352

```
                        +------+
                        |SELSTM|
                        +--+---+
                           |
    +-----------+-----------++-----------+----------+
    |           |           |            |          |
 +--+---+    +---+---+    +---+---+    +---+---+   +--+---+
 |(CONT)|    |DELRBR2|    |DELTEXT|    |ADDRNUM|   |ERRPRO|
 +---331+    +----305+    +----373+    +----355+   +------+
```

```
                    +-------+
                    |DELDBA1|
                    +---+---+
                        |
        +-----------+----+----+-----------+
        |           |         |           |
    +--+---+    +--+---+   +--+---+   +---+---+
    |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+    +-----2+   +-----2+   +------2+
```

```
                         +-------+
                         |DELDSL1|
                         +---+---+
                             |
            +-----------+----+----+----------+
            |           |         |          |
        +--+---+    +--+---+   +--+---+   +---+---+
        |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
        +-----2+    +-----2+   +-----2+   +------2+
```

```
                              +-----+
                              |DRPDB|
                              +--+--+
                                 |
        +----------+---------+-----+----+---------+---------+
        |          |         |          |         |         |
     +--+---+   +--+--+   +--+---+   +---+---+  +---+---+  +--+---+
     |(CONT)|   |PDFDB|   |DELPCB|   |DELTEXT|  |ADDRNUM|  |ERRPRO|
     +---335+   +--371+   +---372+   +----373+  +---+---+  +------+
                                                    |
                                              +----+----+
                                              |         |
                                          +---+---+  +--+---+
                                          |NRSTORE|  |ERRPRO|
                                          +---+---+  +------+
                                              |
                                              |
                                              |
                                           +--+--+
                                           |ALLOC|
                                           +-----+
```

```
                        +-------+
                        |DELDFL3|
                        +---+---+
                            |
          +----------+------+----+---------+
          |          |           |         |
      +--+---+   +--+---+    +--+---+   +---+---+
      |COSQL3|   |ERRRPT|    |COEXEC|   |COBINDN|
      +-----2+   +-----2+    +-----2+   +------2+
```

```
                              +-------+
                              |DELRKM3|
                              +---+---+
                                  |
            +-------------+-------+-----+----------+
            |             |             |          |
        +--+---+      +--+---+      +--+---+    +---+---+
        |COSQL3|      |ERRRPT|      |COEXEC|    |COBINDN|
        +-----2+      +-----2+      +-----2+    +------2+
```

358

```
                          +------+
                          |DRPFLD|
                          +--+---+
                             |
         +---------------+---------+---------+
         |               |         |         |
     +--+---+        +--+--+   +--+---+   +--+---+
     |(CONT)|        |PDFDF|   |CPFNXT|   |ERRPRO|
     +---338+        +--+--+   +----16+   +------+
                        |
         +---------+---+-----+---------+
         |             |         |         |
     +---+---+     +---+---+  +--+---+   +--+---+
     |DELPDFT|     |DEL1PDF|  |UERROR|   |ERRPRO|
     +----343+     +----371+  +-----3+   +------+
```

```
                      +-------+
                      |DELAUCK|
                      +---+---+
                          |
        +-------------+---+---+-----------+
        |             |       |           |
    +---+---+     +---+---+  +--+---+   +---+---+
    |DELKCMT|     |SPRINTF|  |UERROR|   |DELMIGK|
    +----389+     +-------+  +-----3+   +-----40+
```

```
                              +------+
                              |DELASM|
                              +--+---+
                                 |
          +------------+-----+----+-----------+
          |            |          |           |
      +--+---+     +--+---+    +--+---+    +---+---+
      |COSQL3|     |ERRRPT|    |COEXEC|    |COBINDN|
      +-----2+     +-----2+    +-----2+    +------2+
```

```
              +------+
              |DRPMAP|
              +--+---+
                 |
        +--------+--------+
        |        |        |
    +--+---+  +--+---+  +--+---+
    |(CONT)|  |VERREL|  |VERAUC|
    +--344+  +----80+  +----51+
```

```
                        +--------+
                        |DELOACE |
                        +---+---+
                            |
            +----------+----+----+-----------+
            |          |         |           |
        +--+---+   +--+---+   +--+---+   +---+---+
        |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
        +-----2+   +-----2+   +-----2+   +------2+
```

```
                          +------+
                          |FNDECM|
                          +--+---+
                             |
      +--------------+-------+--+----------+----------+
      |              |          |          |          |
   +--+---+      +---+---+   +---+---+   +---+---+   +--+---+
   |(CONT)|      |DLMDAUC|   |DELMDKC|   |DELMDRC|   |(CONT)|
   +---345+      +---+---+   +----374+   +----375+   +---376+
                     |
         +-----------+---+-----+----------+
         |               |          |          |
      +--+---+      +---+---+   +--+---+   +--+---+
      |DELAUC|      |SELECNM|   |UERROR|   |ERRPRO|
      +---307+      +----147+   +-----3+   +------+
```

```
                        +------+
                        |FNDACM|
                        +--+---+
                           |
        +----------+----------++----------+----------+
        |          |          |          |          |
    +--+---+   +---+---+   +---+---+   +--+---+   +--+---+
    |(CONT)|   |ADDRNUM|   |SELACNM|   |UERROR|   |ERRPRO|
    +---346+   +----355+   +---+---+   +-----3+   +------+
                               |
                               |
                               |
                           +--+---+
                           |ERRPRO|
                           +------+
```

```
                                    +-------+
                                    |DRPMGRC|
                                    +---+---+
                                        |
                        +--------+---------+
                        |        |         |
                    +---+---+ +--+---+  +--+---+
                    |DLMIGRC| |UERROR|  |ERRPRO|
                    +---+---+ +-----3+  +------+
                        |
          +---------+---------+----------+---------+
          |         |         |          |         |
      +--+---+  +--+---+  +---+---+   +---+---+  +--+---+
      |COSQL3|  |ERRRPT|  |COFETCH|   |DELIAUC|  |(CONT)|
      +-----2+  +-----2+  +-----44+   +----339+  +---377+
```

```
                      +-------+
                      |DELCPRC|
                      +---+---+
                          |
       +-----------+------+------+-----------+
       |           |             |           |
    +--+---+    +--+---+      +--+---+     +---+---+
    |COSQL3|    |ERRRPT|      |COEXEC|     |COBINDN|
    +-----2+    +-----2+      +-----2+     +------2+
```

```
                        +------+
                        |DRPREL|
                        +--+---+
                           |
      +-------------+--+------+----------+
      |             |        |          |
   +--+---+      +--+---+  +---+---+  +---+---+
   |(CONT)|      |DELRCKW| |ADDRNUM|  |DELTEXT|
   +---347+      +---+---+ +----355+  +----373+
                     |
         +---------+----+----+----------+
         |         |        |          |
      +--+---+  +--+---+  +--+---+   +---+---+
      |COSQL3|  |ERRRPT|  |COEXEC|   |COBINDN|
      +-----2+  +-----2+  +-----2+   +------2+
```

```
                              +-------+
                              |MRGMOD1|
                              +---+---+
                                  |
        +---------+---------+-----+-----+---------+---------+
        |         |         |           |         |         |
     +--+---+  +--+---+  +---+---+   +---+---+  +--+---+  +--+---+
     |ALLATT|  |ALLENT|  |BLKCLST|   |TOPNODE|  |ALLREL|  |ERRPRO|
     +----94+  +---157+  +----121+   +----158+  +---159+  +------+
```

```
                          +------+
                          |MRGMOD|
                          +--+---+
                             |
   +-----------+---------+---+------+----------+---------+
   |           |         |          |          |         |
+--+---+   +---+---+  +---+---+  +---+---+  +--+---+  +--+---+
|(CONT)|   |BLKCLST|  |MRGNODE|  |MRGMOD2|  |CLSFIL|  |ERRPRO|
+---348+   +----121+  +---+---+  +----378+  +---114+  +------+
                          |
        +----------+---------++---------+---------+
        |          |          |         |         |
     +--+---+  +---+---+  +---+---+  +--+---+  +--+---+
     |COSQL3|  |ERRRPT |  |SPRINTF|  |UERROR|  |(CONT)|
     +-----2+  +-----2+  +-------+  +-----3+  +---379+
```

```
                        +------+
                        |RENAME|
                        +--+---+
                           |
        +----------+----------+----------+----------+
        |          |          |          |          |
     +--+---+    +--+---+   +--+---+   +---+---+   +--+---+
     |(CONT)|    |UERROR|   |CPFNXT|   |RCCHEK1|   |(CONT)|
     +---349+    +-----3+   +----16+   +---+---+   +---380+
                                           |
                                    +----+----+
                                    |         |
                                 +--+---+  +--+---+
                                 |CPFNXT|  |VERREL|
                                 +----16+  +----80+
```

```
                        +-----+
                        | PDFDB |
                        +--+--+
                           |
        +------------+--+------+---------+
        |               |            |             |
    +---+---+       +---+---+    +--+---+     +--+---+
    | DELPDFT |     | DEL1PDF |  | UERROR |   | ERRPRO |
    +----343+      +--+---+     +-----3+      +------+
                      |
        +--------+----+----+---------+
        |            |          |            |
    +--+---+     +--+---+    +--+---+     +---+---+
    | COSQL3 |    | ERRRPT |  | COEXEC |   | COBINDN |
    +-----2+     +-----2+    +-----2+      +------2+
```

372

```
                    +------+
                    |DELPCB|
                    +--+---+
                       |
     +---------+----+---+----+----------+
     |         |        |               |
  +--+---+  +--+---+  +--+---+     +---+---+
  |COSQL3|  |ERRRPT|  |COEXEC|     |COBINDN|
  +-----2+  +-----2+  +-----2+     +------2+
```

```
                    +-------+
                    |DELTEXT|
                    +---+---+
                        |
        +---------+-----+----+----------+
        |         |          |          |
    +---+---+ +---+---+   +---+---+  +---+---+
    |COSQL3 | |ERRRPT |   |COEXEC |  |COBINDN|
    +-----2+ +-----2+    +-----2+   +-----2+
```

```
                        +-------+
                        |DELMDKC|
                        +---+---+
                            |
        +----------+--------+-+---------+--------+
        |          |          |         |        |
    +--+---+   +---+---+   +---+---+  +--+--+  +--+---+
    |DELKCM|   |DELCMPR|   |DELIAUK|  |DELKC|  |(CONT)|
    +----66+   +-----67+   +---+---+  +---41+  +---381+
                               |
            +---------+----+---+----+---------+
            |         |         |             |
        +--+---+   +--+---+   +--+---+    +---+---+
        |COSQL3|   |ERRRPT|   |COEXEC|    |COBINDN|
        +-----2+   +-----2+   +-----2+    +------2+
```

375

```
                      +-------+
                      |DELMDRC|
                      +---+---+
                          |
        +----------+----------+----------+----------+
        |          |          |          |          |
     +--+--+    +---+---+   +---+---+   +---+---+   +--+---+
     |DELRC|    |DELRCKW|   |DELTEXT|   |ADDRNUM|   |(CONT)|
     +--347+    +----367+   +----373+   +----355+   +---382+
```

```
                              +------+
                              |FNDECM|
                              +--+---+
                                 |
     +----------+----------+---+------+---------+---------+
     |          |          |          |         |         |
  +--+---+   +--+---+   +--+---+   +--+---+   +-+---+   +-+---+
  |(CONT)|   |DELECNM|  |ADDRNUM|  |SELECNM|  |UERROR|  |ERRPRO|
  +---363+   +----289+  +----355+  +----147+  +-----3+  +------+
```

377

```
                          +-------+
                          |DLMIGRC|
                          +---+---+
                              |
      +-----------+-----------+-----------+----------+
      |           |           |           |          |
   +--+---+    +---+---+    +--+---+    +---+---+   +--+---+
   |(CONT)|    |SPRINTF|    |UERROR|    |ADDRNUM|   |(CONT)|
   +---365+    +-------+    +-----3+    +----355+   +---383+
```

```
                    +-------+
                    |MRGMOD2|
                    +---+---+
                        |
    +---------+---------+---+-----+---------+---------+
    |         |             |         |         |         |
 +--+---+  +--+---+    +---+---+  +--+---+  +--+---+  +--+---+
 |COSQL3|  |ERRRPT|    |SPRINTF|  |UERROR|  |BLRCKC|  |(CONT)|
 +-----2+  +-----2+    +-------+  +-----3+  +---192+  +---384+
```

379

```
                          +-------+
                          |MRGNODE|
                          +---+---+
                              |
       +----------+----------++----------+----------+
       |          |          |           |          |
    +--+---+   +---+---+   +---+---+   +--+---+   +--+---+
    |(CONT)|   |COFETCH|   |SELECNM|   |VERENT|   |(CONT)|
    +---369+   +-----44+   +----147+   +----14+   +---385+
```

380

```
                          +------+
                          |RENAME|
                          +--+---+
                             |
     +----------+---------++---------+---------+
     |          |          |         |         |
  +--+---+   +---+---+   +---+---+  +---+---+  +--+---+
  |(CONT)|   |UPDECNM|   |UPDACNM|  |UPDRCNM|  |(CONT)|
  +---370+   +----386+   +----387+  +---+---+  +---388+
                                        |
                 +---------+----+----+----------+
                 |         |         |          |
              +--+---+  +--+---+  +--+---+  +---+---+
              |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
              +-----2+  +-----2+  +-----2+  +------2+
```

```
                        +-------+
                        |DELMDKC|
                        +---+---+
                            |
        +----------+--------++---------+---------+
        |          |         |         |         |
    +--+---+   +---+---+  +---+---+  +--+---+  +--+---+
    |(CONT)|   |ADDRNUM|  |SELECNM|  |UERROR|  |ERRPRO|
    +---374+   +----355+  +----147+  +-----3+  +------+
```

```
                      +-------+
                      |DELMDRC|
                      +---+---+
                          |
          +-----------+---+-----+----------+
          |           |         |          |
      +--+---+    +---+---+   +--+---+   +--+---+
      |(CONT)|    |SELECNM|   |UERROR|   |ERRPRO|
      +---375+    +----147+   +-----3+   +------+
```

```
                              +--------+
                              |DLMIGRC |
                              +---+----+
                                  |
      +-----------+-----------+---+----+-----------+-----------+
      |           |           |        |           |           |
  +--+---+    +---+---+    +---+---+   +--+---+   +---+---+   +---+---+
  |(CONT)|    |DELKCMT|    |DELAUCL|   |COEXEC|   |CODFINN|   |COBINDN|
  +---377+    +----389+    +----340+   +-----2+   +----102+   +------2+
```

```
                        +-------+
                        | MRGMOD2 |
                        +---+---+
                            |
    +----------+----------++----------+----------+
    |          |           |          |          |
 +--+---+   +---+---+   +---+---+   +---+---+   +--+---+
 |(CONT)|   |COFETCH|   |SELECNM|   |VERRCNM|   |(CONT)|
 +---378+   +-----44+   +----147+   +----147+   +---390+
```

```
                              +-------+
                              |MRGNODE|
                              +---+---+
                                  |
      +----------+----------+----+----+----------+----------+
      |          |          |         |          |          |
   +--+---+   +--+---+   +---+---+  +--+---+   +---+---+  +---+---+
   |(CONT)|   |GENENT1|  |GENALTE|  |COEXEC|   |COBINDN|  |CODFINN|
   +---379+   +----113+  +----148+  +-----2+   +------2+  +----102+
```

```
                      +-------+
                      |UPDECNM|
                      +---+---+
                          |
          +----------+----+----+----------+
          |          |         |          |
      +--+---+    +--+---+   +--+---+   +---+---+
      |COSQL3|    |ERRRPT|   |COEXEC|   |COBINDN|
      +-----2+    +-----2+   +-----2+   +------2+
```

```
                    +-------+
                    |UPDACNM|
                    +---+---+
                        |
        +------------+---+----+----------+
        |            |        |          |
    +--+---+     +--+---+  +--+---+   +---+---+
    |COSQL3|     |ERRRPT|  |COEXEC|   |COBINDN|
    +-----2+     +-----2+  +-----2+   +------2+
```

388

```
                          +------+
                          |RENAME|
                          +--+---+
                             |
        +---------+---------+---------+----------+
        |         |         |         |          |
    +--+---+  +--+---+  +---+---+  +---+---+  +---+---+
    |(CONT)|  |UPDTKW|  |UPDMNAM|  |UPDTDOM|  |UPDVIEW|
    +---380+  +---391+  +----392+  +----393+  +----394+
```

```
                    +-------+
                    |DELKCMT|
                    +---+---+
                        |
      +------------+----+----+------------+
      |            |         |            |
  +--+---+     +--+---+   +--+---+    +---+---+
  |COSQL3|     |ERRRPT|   |COEXEC|    |COBINDN|
  +-----2+     +-----2+   +-----2+    +------2+
```

```
                          +-------+
                          |MRGMOD2|
                          +---+---+
                              |
      +-----------+-----------+-----------+-----------+
      |           |           |           |           |
  +--+---+    +---+---+    +---+---+    +---+---+    +--+---+
  |(CONT)|    |GENRNME|    |ADDPARM|    |GENDESC|    |(CONT)|
  +---384+    +----183+    +-----58+    +----146+    +---395+
```

```
                   +------+
                   |UPDTKW|
                   +--+---+
                      |
      +---------+-----+----+---------+
      |         |          |         |
  +--+---+  +--+---+   +--+---+   +---+---+
  |COSQL3|  |ERRRPT|   |COEXEC|   |COBINDN|
  +-----2+  +-----2+   +-----2+   +------2+
```

```
                        +-------+
                        |UPDMNAM|
                        +---+---+
                            |
        +----------+----+----+----+----------+
        |               |         |          |
     +--+---+        +--+---+   +--+---+   +---+---+
     |COSQL3|        |ERRRPT|   |COEXEC|   |COBINDN|
     +-----2+        +-----2+   +-----2+   +------2+
```

393

```
                 +-------+
                 |UPDTDOM|
                 +---+---+
                     |
        +---------+----+----+----------+
        |         |         |          |
     +--+---+  +--+---+  +--+---+  +---+---+
     |COSQL3|  |ERRRPT|  |COEXEC|  |COBINDN|
     +-----2+  +-----2+  +-----2+  +-----2+
```

394

```
                    +-------+
                    |UPDVIEW|
                    +---+---+
                        |
        +----------+----+----+----------+
        |          |         |          |
    +--+---+   +--+---+   +--+---+   +---+---+
    |COSQL3|   |ERRRPT|   |COEXEC|   |COBINDN|
    +-----2+   +-----2+   +-----2+   +------2+
```

```
                      +-------+
                      |MRGMOD2|
                      +---+---+
                          |
     +---------+---------+----+----+---------+---------+
     |         |         |         |         |         |
  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+  +--+---+
  |(CONT)|  |ALLKEY|  |MIGREL|  |CMBRKW|  |VERENT|  |(CONT)|
  +---390+  +---259+  +---213+  +---183+  +----14+  +---396+
```

396

```
                           +-------+
                           |MRGMOD2|
                           +---+---+
                               |
        +----------+----------++----------+----------+
        |          |          |           |          |
    +--+---+    +---+---+   +---+---+   +---+---+   +--+---+
    |(CONT)|    |CKDUPEC|   |GENENT1|   |STRNCPY|   |(CONT)|
    +---395+    +-------+   +----113+   +-------+   +---397+
```

```
                    +-------+
                    |MRGMOD2|
                    +---+---+
                        |
        +---------+-----+----+----------+
        |         |          |          |
     +--+---+  +--+---+   +---+---+  +---+---+
     |(CONT)|  |COEXEC|   |COBINDN|  |CODFINN|
     +---396+  +-----2+   +------2+  +----102+
```

3.11 Program Listings Comments

This information is contained in the Module Descriptions in
section 3.10.

SECTION 4

QUALITY ASSURANCE PROVISIONS

4.1 Introduction and Definitions

"Testing" is a systematic process that may be preplanned
and explicitly stated. Test techniques and procedures may be
defined in advance, and a sequence of test steps may be
specified. "Debugging" is the process of isolation and
correction of the cause of an error.

"Antibugging" is defined as the philosophy of writing
programs in such a way as to make bugs less likely to occur and
when they do occur, to make them more noticeable to the
programmer and the user. In other words, as much error checking
as is practical and possible in each routine should be
performed.

4.2 Computer Programming Test and Evaluation

The quality assurance provisions for test consists of the
normal testing techniques that are accomplished during the
construction process. They consist of design and code
walk-throughs, unit testing, and integration testing. These
tests are performed by the design team. Structured design,
design walk-through and the incorporation of "antibugging"
facilitate this testing by exposing and addressing problem areas
before they become coded "bugs."

END

7-87

DTIC